

# SMOKE SIGNALS

For Radio Amateurs • By Radio Amateurs

Published Monthly Since 1969 • Our 26th Year  
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## FCC Issues NPRM on Rules Changes

The FCC has issued a Notice of Proposed Rule Making on several changes in amateur service rules announced last week.

The FCC proposes to designate one volunteer examiner of a team as the examination session manager, saying that would increase "examination efficiency." The FCC said that continuing to require at least three VEs to be present would preserve the protection of cross-checking, as sought by the ARRL.

The Commission also proposes to give examination credit to former licensees, as requested by the ARRL in RM-8418. The FCC said the League's position had merit, and the proposed new rule would allow VEs to give exam element credit for any exam the applicant had previously passed. In addition, the FCC asks for comments on criteria "it should use" to allow credit on amateur exams for other types of formerly and currently held US operator licenses and foreign licenses.

The FCC also agreed with the ARRL proposal in RM-8462 that bona fide Amateur Radio clubs should comprise a minimum of four people in order to be eligible

for a club station license and proposes a rule to that effect.

In response to an ARRL request as part of the vanity call sign program, the Commission proposes to make one-by-one call signs available to special event stations. Requests for such call signs would have to be made 120 days in advance; the period of the special call sign would be 15 days or for the duration of the event, whichever is shorter. The application would have to state the nature of the event and include a list of requested call signs in order of preference.

Finally, the FCC also proposes to allow portable indicators to be included before, after, or both before and after, the assigned call sign. This was, the FCC said, in response to several informal requests for clarification of its rule 97.119(c).

The comment deadline for these proposals, in WT Docket 95-57, is July 14, 1995. The reply comment deadline is August 14, 1995.

- ARRL Bulletin ARLB050, 5/9/95

## HF Mobile in the 1995 Wisconsin QSO Party: Lots of Fun, Lots of Points



Greg Schneider, W9IEI (driver), and Wayne Pennings, WD9FLJ, both of the Fox Valley area, hit the roads with a kilowatt HF mobile in the 1995 Wisconsin QSO Party. They set a goal of 5,000 points for their first effort as an HF mobile entry. Read their saga on page 11 and check out their score in the WQP results in this issue.

- Photo courtesy Wayne Pennings/WD9FLJ

### IN THIS ISSUE:

## OFFICIAL RESULTS 1995 WISCONSIN QSO PARTY

Sponsored by the West Allis Radio Amateur Club

LISTINGS BEGIN ON PAGE 7

## Field Day 1995: June 24 and 25



I'll be in church next Sunday! I'll be in church next Sunday!

## ON THE INSIDE

What's Happening .....	2
Wisconsin Nets Association .....	4
New ARRL Net Directory .....	4
Elmer .....	4
HF Auto Digital Details .....	4
Here and There .....	5
Madison's Very Special "Elmer" .....	5
The Computer Corner .....	6
1995 Wisconsin QSO Party Results .....	7 - 11
From Sparks to FAX .....	12
Add to Your Field Day Score with PR Points .....	12
New Products .....	13, 16
Riverland Amateur Radio Club .....	14
Eau Claire Amateur Radio Club .....	14
Taylor County Area Amateur Radio Club .....	14
Racine Megacycle Club .....	14
Mancorad Radio Club .....	15
Watts Snoo (Central Wisconsin Radio Amateurs at UW-Stevens Point) .....	16
Sheboygan County Amateur Radio Club .....	16
Red Cedar Repeater Association .....	17
Washington County Amateur Radio Club .....	17
Silent Keys .....	17
Last Minute News: Vanity Calls, SAREX, W5YI vs. W1AW .....	17
The Wisconsin Packeteer .....	18
Quarter Century Wireless Association Southeastern Wisconsin Chapter 174 .....	19
Yellow Thunder Amateur Radio Club .....	19





# WHAT'S HAPPENING

✕ Swapfests and Other Social Events ✕ Club Meetings  
✕ Amateur Radio Exam Schedules

EDITED BY KENNETH A. EBNETER, K9EN, 822 WAUONA TRAIL, PORTAGE, WI 53901

## Swapfests and Other Social Events

SUNDAY, JUNE 11, 1995. Annual Central Wisconsin Radio Amateurs Swapfest (CWRA), Stevens Point, WI. Held at the UW Stevens Point Student Center. FCC VE exams at 9:00 a.m. Fox Hunt at 10:00 a.m. Contact: Art Wysocki, N9BCA, 3356 April Lane, Stevens Point, WI 54481. (715) 344-2984.

FRIDAY, JUNE 16 & SATURDAY, JUNE 17, Electronics Fair 95, Aldrich Arena, Maplewood, MN.

SUNDAY, JULY 2, 1995. Northwoods Amateur Radio Club annual Hamfest, Located in Rhineland, WI at the Taj Mahall, Head north on Stevens St., to Pueblo Dr., turn left (by Nissan dealer). Contact Northwoods ARC., 5286 Sycamore ST., Rhineland, WI 54501. (715) 369-5194.

SATURDAY, JULY 8, 1995. South Milwaukee Swapfest, American Legion Park, Shepard Avenue, Oak Creek, WI. Contact SMARC, PO box 102, South Milwaukee, WI 53172. (414) 762-3235.

SATURDAY, JULY 22, 1995 Eau Claire ARC Swapfest, Chippewa Falls WI. Contact: ECARC, PO Box 1867, Eau Claire, WI 54701, or Carol Ceraso, (715) 723-9205 or Liz Searing, (715) 834-1303.

SUNDAY, JULY 23, 1995. Fox River Radio League Hamfest, Sugar Grove, IL.

SUNDAY, JULY 30, 1994. Racine Hamfest, South Hills Country Club, I-94, East Frontage Road, Between Highway 20 and Highway K, Racine, WI. Contact: Racine Megacycle Club, PO Box 3, Racine, WI 53401-0003.

SUNDAY, AUGUST 6, 1995. The Marshfield Area Amateur Radio Society will be holding their 4th annual picnic. Gather around 11:00 a.m. Potluck & Swapfest, in Wildwood Park, Marshfield, WI. Talk in on 147.180. All welcome. Contact: Guy A Boucher, KF9XX, 107 West

Third Street, Marshfield, WI. 54449. (715) 384-4323. Packett:KF9XX @ W9IHW.WI.USA.NA

SATURDAY, AUGUST 12, 1995. Northwoods Hamfest, at Sugar Camp town hall near Rhineland, WI. Contact Mary Berger, NS9Q, 367 Lois St., Rhineland, WI 54501. (715) 362-9296.

SATURDAY, AUGUST 26, 1994. Riverland Hamfest-Computer Expo and Antique radio show. La Crosse, WI. Contact: Dick Low, KOJYB, 1520 Nakomis Ave., La Crosse, WI 54603. (608) 784- 9176.

SUNDAY, AUGUST 27, 1995. Woodstock Hamfest, McHenry County Fairgrounds, Woodstock, IL. Contact: TCRG, PO Box 3107, Skokie, IL, 60076- 6107.

SATURDAY, SEPTEMBER 2, 1995. It's true! Mighty little Hayward in northern Wisconsin is holding its first Hamfest on the LABOR DAY week-end from 8AM to 2PM. Free Coffee. Pretty good food. Tables \$10. Tickets \$5.00 Write John Kruk N9UPC PO Box 13160 Hayward, WI 54843 or call 715-634-4940. We have rented the Armory and they do NOT allow tail-gating. Sorry! All sales inside ONLY.

SUNDAY, SEPTEMBER 10, 1995. Iowa Radiofest, Dubuque Hamfest & Computer Expo., Tri-State Blind Society, 3333 Ashbury Road, Dubuque, IA. Contact: Larry Pensel, W0UST, 619 Kaufmann Ave., Dubuque, IA 52001, (319) 588-1085, Loren Heber, NOYHZ, 9479 Lauderville Road, Dubuque, IA 52003. (319) 583-5755, or J. Ehlers, NONLU, (319) 583- 1016.

SUNDAY, OCTOBER 15, 1995. Kettle Moraine Radio Amateurs Swapfest, Waukesha County Expo Center. Contact: KMRA Swapfest, PO Box 411, Waukesha, WI 53187-0411.

SATURDAY, NOVEMBER 4, 1995. 11th annual Friendlyfest 8:00 a.m. to 1:00 p.m. at the Waukesha County Expo Center, Waukesha, WI. Contact Milwaukee Repeater Club, Inc., PO Box 2123, Milwaukee, WI 53201.

SUNDAY, NOVEMBER 4, 1995. Fox Cities Hamfest, Starlite Club, Hwy 55 North of Kaukauna. Contact: Dan

Vanevenhoven, N9LVS, 2410 E Newberry Ct., Appleton, WI 54915. (414) 739-5101.

SUNDAY, JANUARY 14, 1996. 24th Annual Midwinter Swapfest, Waukesha County Expo Center Forum, Waukesha, WI. Contact: WARAC Swapfest, PO Box 1072, Milwaukee, WI. 53201.

TUESDAY, FEBRUARY 27, 1996. Red Cedar Repeater Association, Inc., American Legion Post 53, 634 Water St., Eau Claire, WI. Contact: Steve Hart, KA9OMC, E616 810th Ave., Knapp, WI 54749. (715) 665-2374.

SUNDAY, MARCH 10, 1996. SEWFARS Swapfest, Waukesha County Expo Center, Waukesha, WI. Contact: SEWFARS PO Box 102, Delafield, WI 53018. (414) 789-1034.

See also the back page and flyer ads for additional information on many of these events.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

## Club Meetings



Due to space limitations, we cannot always carry the full listing of Wisconsin and area club meetings. Please see the January 1995 meetings column for the latest complete listing. The following are additions or changes since that listing.

### M & M AMATEUR RADIO CLUB

General meeting held second Thursday each month at 7:00 p.m. at Menominee BAMC 4th floor, Tenth Ave., Menominee, MI 49858.

### MANITOWOC COUNTY RADIO AMATEURS

Directors Meeting: First Wed. Held at 7:30 p.m. in the basement, Manitowoc City Hall, 817 Franklin ST., Manitowoc.

General meeting: Second Wed. Held at 7:30 p.m. at Associated Manitowoc Bank, corner of 10th and Franklin Streets.

### WISCONSIN RAPIDS AMATEUR RADIO CLUB

Third Wednesday, 7:00 p.m. Emergency Government Office, Wood County Court House. Talk-in on 146.79 for entry into the building.

Net on Sundays at 8:00 p.m. on 146.79.

## Badger State Smoke Signals

### Amateur Radio Education and Information

**CHAIRMAN:** Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. Telephone (608) 742-3560.

**EDITOR:** Jim Romelfanger, K9ZZ, 412 1/2 Ash Street, Baraboo, WI 53913. Telephone (608) 356-4031.

**TREASURER:** Jim Decker, WB9UQT, P.O. Box 337, Baraboo, WI 53913-0337.

**CONTRIBUTING AUTHOR:** Richard R. Regent, K9GDF, 5003 South 26th Street, Milwaukee, WI 53221.

### Subscriptions

1 year	(12 issues)	\$12.00
2 years	(24 issues - save \$2.00)	\$22.00
3 years	(36 issues - save \$4.00)	\$32.00

Special club package reduced rates are available. For information, contact Ken Ebner, K9EN.

### When to Send It

The closing date for each issue is the first of the month for the next month's issue. For example, the closing date for the June issue is May 1.

The only exception is for participating clubs. Participating clubs are requested to send their material no later than FIVE DAYS after the club's meeting. For example, if a club meets on the 4th of the month, the material should be sent no later than the 9th of that

month. This material is to be sent to the Editor.

### Where to Send It

Address changes and corrections should be sent to Ken Ebner.

Editorial material, photographs, feature articles, display ads, and exchange papers should be sent to Jim Romelfanger.

Inquiries about advertising should be directed to Ken Ebner.

Swapfest information should be sent to Ken Ebner. Swapfest ads should be sent to Jim Romelfanger.

Subscriptions should be sent, with check or money order, to Jim Decker.

### Conditions for Reprinting or BBS Posting Material from Badger State Smoke Signals

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### Editorial Disclaimer

The opinions expressed in editorials, guest editorials, columns, articles, and letters from readers are the opinions of the authors only, and do not, unless otherwise stated, express or imply endorsement by *Badger State Smoke Signals*, or by any other individual or organization.

## The Test Point



### Amateur Radio Examination Locations and Schedules in the Wisconsin Area

June 3, 1995	Fond du Lac, WI
June 3, 1995	Baraboo, WI
June 3, 1995	Racine, WI
June 3, 1995	River Falls, WI
June 10, 1995	Madison, WI
June 10, 1995	Redgranite, WI
June 11, 1995	Stevens Point, WI
	CWRA Swapfest
June 21, 1995	West Allis, WI (MRAC)
June 17, 1995	Loves Park, IL
June 24, 1995	Wauwatosa, WI (MRAC)
June 24, 1995	Tomahawk, WI
July 8, 1995	Oak Creek, WI
	SMARC Hamfest

July 8, 1995 Redgranite, WI  
 July 8, 1995 Mukwonago  
 July 19, 1995 West Allis, WI (MRAC)  
 July 15, 1995 Loves Park, IL  
 July 29, 1995 Wauwatosa, WI (MRAC)  
 July 29, 1995 Tomahawk, WI  
 July 30, 1995 Racine, WI  
 Racine Hamfest  
 August 5, 1995 River Falls, WI  
 August 12, 1995 Marshfield, WI  
 Northwoods Hamfest  
 August 12, 1995 Redgranite, WI  
 August 12, 1995 Mukwonago  
 August 16, 1995 West Allis, WI (MRAC)  
 August 19, 1995 Loves Park, IL  
 August 26, 1995 Wauwatosa, WI (MRAC)  
 August 26, 1995 Tomahawk, WI  
 September 2, 1995 Oak Creek, WI (SWAT/MRAC)  
 September 2, 1995 Racine, WI  
 September 9, 1995 Madison, WI  
 September 9, 1995 Redgranite, WI  
 September 10, 1995 Dubuque, IA  
 Dubuque Hamfest  
 September 20, 1995 West Allis, WI (MRAC)  
 September 16, 1995 Loves Park, IL  
 September 30, 1995 Wauwatosa, WI (MRAC)  
 September 30, 1995 Tomahawk, WI  
 October 7, 1995 Racine, WI  
 October 7, 1995 River Falls, WI  
 October 7, 1995 Oak Creek, WI (SWAT/MRAC)  
 October 14, 1995 Madison, WI  
 October 14, 1995 Redgranite, WI  
 October 18, 1995 West Allis, WI (MRAC)  
 October 21, 1995 Loves Park, IL  
 October 28, 1995 Wauwatosa, WI (MRAC)  
 October 28, 1995 Tomahawk, WI  
 November 4, 1995 Racine, WI  
 November 4, 1995 Oak Creek, WI (SWAT/MRAC)  
 November 4, 1995 Menomonie, WI  
 November 11, 1995 Marshfield, WI  
 November 11, 1995 Madison, WI  
 November 11, 1995 Redgranite, WI  
 November 15, 1995 West Allis, WI (MRAC)  
 November 18, 1995 Dubuque, IA  
 November 18, 1995 Loves Park, IL  
 November 25, 1995 Wauwatosa, WI (MRAC)  
 December 2, 1995 Oak Creek, WI (SWAT/MRAC)  
 December 2, 1995 Racine, WI  
 December 2, 1995 River Falls, WI  
 December 2, 1995 Stevens Point, WI  
 December 9, 1995 Madison, WI  
 December 9, 1995 Redgranite, WI  
 December 20, 1995 West Allis, WI (MRAC)  
 December 16, 1995 Loves Park, IL

Monthly, 1st Sat. Racine, WI  
 (except January, July & August)  
 Monthly, 1st Sat. Oak Creek, WI (SWAT/MRAC)  
 (except May, June, July & August)  
 Monthly, 2nd Sat. Madison, WI  
 Monthly, 2nd Sat. Redgranite  
 Monthly, 3rd Wed. West Allis, WI (MRAC)  
 Monthly, 3rd Sat. Loves Park, IL  
 Monthly, Last Sat. Wauwatosa, WI (MRAC)  
 (except December)  
 Monthly, Last Sat. Tomahawk, WI  
 (January thru October only)  
 Quarterly Marshfield, WI  
 (Second Saturday every third month.)

Many Swapfests/Hamfests offer exam sessions. If not shown above contact the sponsoring club in the Swapfest column on page 2.

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

#### GENERAL RULES FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given. Some examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL. Send a 32c/ SASE if you request one from the ARRL. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$5.90 payable to "ARRL/VEC".

The FCC now requires applicants to show their

ORIGINAL AMATEUR LICENSE or CSCE to the VEC. You must also have two good copies of your license or CSCE. A copy of your license or CSCE must be attached to your FCC form 610 and most VEC want a copy for their records. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

#### MILWAUKEE RADIO AMATEURS' CLUB (MRAC/VEC) OAK CREEK, WI (SWAT-MRAC/VEC)

FIRST SATURDAY DATES (No exams June, July or August. May exam on 2nd sat at 1:00 p.m.): 3:30 p.m. at 6560 S. 27th St., Oak Creek, WI. (2-blocks south of College.) (MRAC fee \$5.00)

THIRD WEDNESDAY DATES: At 6:30 p.m. Manor at Park, 3023 S 84th St., West Allis, WI.

LAST SATURDAY DATES (except December): 9:00 a.m. at 7500 W. State St., Wauwatosa S&L, lower level, Wauwatosa, WI.

For Additional Information Contact; Jack Krause, (414) 774-6999 or call (414) 466-HAMS (Answering Machine) or write MRAC, 1737 N. 116th St., Wauwatosa, WI 53226.

Bring along your ORIGINAL license, CSCE and two (2) good quality photocopies, plus two forms of identification, such a driver's license, etc. Also required is \$5.00 for the exam fee. WALK-INS are welcome. To register in advance, use a post card: print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, or Les Peterson, W9YCV at the addresses shown above.

#### BADGER EXAMINERS (BE) - MILWAUKEE

Amateur exams: 1:00 p.m. to 4:00 p.m.

Commercial exams: 9:00 a.m. to 12:00 noon.

Unless otherwise noted at WMVS-TV studios, MATC Downtown campus in the C building. The address is 1036 N. 8th Street, Milwaukee. Enter at the North West entrance of C Building. Walk-ins are welcome. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to take., your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, W19M, 5119 W. Willow Rd., Brown Deer, WI 53223. Telephone (414) 355-0237.

Also available FCC General Radio Telephone Commercial exams. Fees are \$5.90 for the Amateur Radio exams and \$35.00 for the commercial exams.

#### MADISON, WI

VE exams are held in Madison every second Saturday morning (September through May) of the month at 8 a.m. They are held at the operations building of the Madison Metropolitan Sewerage District at 1610 Moorland Rd. To get there take the Beltline (Hwy 12 & 18) to South Towne Drive. Go south 8/10 mile till South Towne Drive makes a bend and becomes Moorland Rd. and enter at gate.

You should bring a picture ID, your original licence and a copy of your licence. For exams beyond the novice tests, bring a check for \$5.90, made out to the ARRL/VEC. If the special 610 form with the medical exemption is required, contact me beforehand to obtain one. No appointments are necessary to take exams. For further questions, please leave a message on the mailbox or phone me at (608) 832-6631.

Mark Jenks, NZ9B

#### RIVER FALLS, WI

Held in the church basement at the United Methodist Church, 127 South 2nd St., River Falls, WI. Contact: Chuck Kelly, KA9YRV, 234 W Cascade Ave., River Falls, WI 54022.

#### REDGRANITE, WI (W5YI VEC)

Test sessions are held in Redgranite on the second Saturday of each month, at the Civic Center, 202 Pine River rd., just off Highway 21. Testing begins at 9:00 a.m. Breakfast meeting at 8:00 a.m. at the Cirve on Highway 21 prior to testing session. All Amateurs are welcome at the breakfast. Contact Terry Lynn Witt, AA9BA, 9145 Ivy Lane, Berlin, WI 54923.

#### RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except January, July, and August. Monthly exams are given 9:00 to 11:00 a.m. at the Red Cross Building, 4521 Taylor Avenue, Racine. Walk-ins are permitted.

Inquiries and registrations should be directed to William Firchow, Jr., NW9P, 1912 27th Street, Kenosha, WI 53140, telephone (414) 658-8390.

#### TOMAHAWK, WI

Last Saturday of every month. Jan. thru Oct.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No preregistration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Terry Collins, KB9AUP, W6564 Highway 8, Tomahawk, WI 54487. Telephone (715) 453-4633.

#### STEVENS POINT, WI

Contact: Joe Larson, N9JW. (715) 344-1182.

#### APPLETON, WI - ARRL/VEC

#### MANITOWOC, WI (HAMFEST)

#### KAUKAUNA, WI (HAMFEST)

Conducted by the Fox Cities ARC VE team. All test session in Appleton are held at James Madison Jr. High, 2020 S. Carpenter Street. Candidates check in between 8 and 9 a.m. with testing starting at 9 a.m. No walk-ins after 9 a.m. Contact George R. Croy, W9MDP, 2113 Twin Willows Drive, Appleton, WI 54914. (414) 730-0967.

#### MENOMONIE, WI

The Menomonie VEC will be sponsoring exams from 9:00 to 11:30 a.m. at the UW Stout Communication Center, 820 South Broadway, Menomonie, WI. Use the north entrance. Walk-ins only. Contact Jim Ley, NX9F. Work: (715) 232-1397, Home: (715) 235-3998.

#### MARSHFIELD, WI (ARRL/VEC)

Sponsored by the Marshfield Area ARS. Held at St. Joseph Hospital, 611 St. Joseph Ave., in the 1 West classroom located adjacent to the Westwood Cafeteria on the main floor of the hospital. Use the main entrance or any other entrance and follow the signs to the cafeteria. Registration starts at 8:30 a.m. with testing starting at 9:00 a.m. Talk in on the 147.18 Marshfield repeater. Walk-ins welcome. Contact: Walter Friant, WBOKIN, 2310 Wallonie Drive, Marshfield, WI 54449 (715) 387-3870.

#### GREEN BAY, WI (ARRL/VEC)

Contact N9NOF, Keith Summers, 918 Bluebird St., De Pere, WI 54115. (414) 336-6087, after 4:00 p.m.

#### FOND DU LAC, WI

Sponsored by the Fond du Lac Amateur Radio Club. From 9:00 a.m. to Noon at the Community United Methodist Church located at 701 Minnesota Ave., in North Fond du Lac, WI. All level tests, walk-ins welcome. Contact: Doug Schultz, N9EZF, (414) 992-3088.

#### MUKWONAGO

June 10, July 8, August 12

The Kettle Moraine Exam Team will be having regular exams from 9:00 a.m. to noon on the Second Saturday of the month at Laflin Lodge in Mukwonago. Park on Highway 83 just south of Highway ES behind Horn Hardware. Testing is in the basement of the Masonic Lodge. No smoking.

#### CEDARBURG, WI - ORC HAMFEST

#### EAU CLAIRE, WI - ECARC HAMFEST

#### GREEN BAY, WI - ARES HAMFEST

#### KAUKAUNA, WI - SWAPFEST

#### MANITOWOC, WI, LAKESHORE HAMFEST

#### MARSHFIELD, WI - HAMFEST

#### OAK CREEK, WI - SMARC HAMFEST

#### RACINE, WI - BIG BOY TOY SHOW

#### RHINELANDER, WI - NWARC SWAPFEST

#### ROCKFORD, IL - RARC HAMFEST

#### ROTHSCHILD, WI - WVRA HAMFEST

#### SOUTH MILWAUKEE, WI - SMARC HAMFEST

#### STEVENS POINT, WI - CWRA SWAPFEST

#### WAUKESHA, WI - KMRA SWAPFEST

#### WAUKESHA, WI - MIDWINTER SWAPFEST

#### DUBUQUE, IA - HAMFEST

See the Swapfest column for additional information and contact persons.

#### GREAT RIVER AMATEUR RADIO CLUB

#### DUBUQUE, IOWA - ARRL/VEC

The Great River Amateur Radio Club VEs are now field stocked, which means retests can be given immediately.

Exams are held at 9:00 am at the Central Fire Station, 9th and Central in Dubuque. Use the basement entrance on 9th street. For more info, contact: Carl Clark, NOKAX, 145 Delicia Drive, Dubuque, IA 52001. Or call Carl at 319- 557-9149. Talk-ins are on the 147.84/24, 147.63/03 and 146.295/895 repeaters.

(continued on page 18)

# Wisconsin Nets Association Ltd.

Art Evans, KA9KLZ, Secretary • 213 North Jefferson • Cuba City, WI 53807

## Section Manager's Notes



Richard R. Regent, K9GDF  
5003 South 26th Street  
Milwaukee, WI 53221

July 8 South Milwaukee ARC Swapfest, American Legion Park in Oak Creek. July 22 Eau Claire ARC Swapfest, Chippewa Falls Fairgrounds. July 30 Racine Hamfest, South Hills Country Club.

Fifty of Wisconsin's 98 radio clubs are ARRL affiliated, is yours? Encourage your club officers to inquire about affiliation benefits and get an application from our ACC K9FHI.

The Tri-County ARC has 19 members and operates the 145.49 MHz repeater, more info from N9DTT.

Four Lakes ARC club program July 18 is computers and their components.

Watertown ARC doing great at their Highway 26 cleanup projects.

N9LTA of Kenosha is new TS looking for technical questions.

Club tips of the month: review progress club has made during the past year. Conduct Field Day post-mortem session at meeting.

## Wisconsin Nets

Net	WNA	Freq.	UTC	CDT	Mgr.
BWN	Yes	3985	1100	0600	W9AYK
BEN	Yes	3985	1700	1200	KE9VU
WSBN	Yes	3985	2230	1730	K9UTQ
WNN	Yes	3723	2300	1800	KA9FVX
WSSN	Yes	3645	2330	1830	N9BDL
WIN/E	Yes	3662	0000	1900	WB9ICH
WIN/L	Yes	3662	0300	2200	W9NGP
NWTN	Yes	34/94	2330	1830	NS9Q

(Rhinelander area)

RCRA	No	01/61	2330	1830	KA9OMC
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(Mondays CDT) (Menomonie Area)

Gr. Bay	No	72/12	0145	2045	WB9NRK
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(Green Bay Area)

ARES	No	4.65/5.25	0100	2000	
------	----	-----------	------	------	--

(South East/South Central Wisconsin)

RACES	No	3993.5	1300	0800	WA9OAY
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(LSB Sunday)

Exams: July 8 Redgranite, July 19 West Allis, July 29 Wauwatosa and Tomahawk, July 30 Racine.

Sorry to report Silent Keys: W9GAH (West Allis), KB9ZF (Milwaukee), K9IKA (Randolph), WB9LCE (Cape Coral, FL), N9CSM (Milwaukee).

Thought for the month: *The one time you come up with a great solution, somebody else has just solved the problem.*

## HF Auto Digital Detailed

The FCC has released its Report and Order in PR Docket 94-59, concerning HF digital communications in the Amateur Radio Service. The new rules, effective July 1, 1995, permit automatically controlled HF RTTY and data stations to communicate with one another in the following segments:

28.120 to 28.189, 24.925 to 24.930,  
21.090 to 21.100, 18.105 to 18.110,  
14.095 to 14.0995, 14.1005 to 14.112,  
10.140 to 10.150, 7.100 to 7.105,  
and 3.620 to 3.635 MHz.

The new rules also permit manually controlled stations to initiate communication with automatically controlled HF RTTY and data stations. In this case the automatically controlled station may use any frequency authorized for such emissions, but may occupy a bandwidth of no more than 500 Hz.

Automatic control must cease upon notification by an FCC engineer in charge that the station is transmitting improperly or causing interference to other stations.

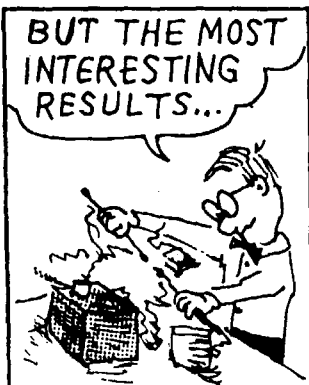
The FCC said it recognized the concerns of those who opposed the proposal on grounds that such operation could interfere with other amateurs, but that it believed the provisions adopted would be adequate to minimize such interference.

More information is on page 71, August 1994 QST.

- ARLB047, 5/2/95

## ELMER

By Rich Regent, K9GDF



## Let's Use Morse Code!

Using Morse code is exciting for Dr. Thomas W. King, WF9I. He is developing Morse code applications in adult rehabilitation or education and with disabled children. The clinical potential for various Morse code applications is significant.

Tom is editor for a new newsletter of the Morse 2000 Outreach called *MORSE LS*, which promotes Morse code uses in rehabilitation and education. This work is really a collaborative effort of the

Please turn to page 12

## New ARRL Net Directory

By Richard Regent, K9GDF  
5003 South 26th Street, Milwaukee, WI 53221

The latest 1995-1996 Edition of the *ARRL Net Directory* (FSD-50) is now available. It lists Amateur Radio nets, especially ARES and NTS nets, that are of interest to operators in the United States and Canada.

We're proud that Wisconsin has 105 nets listed in the new Directory, a state listing which spans three directory pages! How does this compare with the other states in the 9th Call Area? We have more than double the combination of listed nets for Illinois (18) and Indiana (33). Section Manager research helps to promote all our nets through thorough listing. Only the entire state of California has more listed nets than Wisconsin! Oh well, California has ten times more amateurs, too.

The new *ARRL Net Directory* is available at Hamfests that have League materials on sale or it is available directly from ARRL Headquarters for \$3 (I think it is still postpaid). If you would like the latest free list of just the 119 Wisconsin nets, let me know. Thanks.

## Badger State Smoke Signals

The Wisconsin Area's Monthly Amateur Radio Newspaper

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For further information, contact BADGER STATE SMOKE SIGNALS, c/o Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, Wisconsin 53901, (608) 742-3560, or Jim Romelfanger, K9ZZ, 412 1/2 Ash Street, Baraboo, WI 53913, (608) 356-4031.

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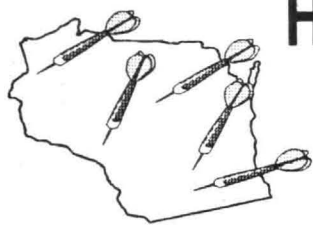
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## HERE and THERE

### Schedule Update for Call Sign Applications

The FCC has begun accepting requests for Form 610-V - the form necessary for applying for a vanity call sign through their Forms Distribution Center (800-418-3676 or 202-418-3676). It will be some time before the forms are available, however, and some people who request them may get a back order notice.

Applications for amateur vanity call signs will not be accepted until some time *after* the forms are available from the FCC, and the Commission will make a public announcement of the date of opening of the first "gate" for vanity call sign applications.

Alternatively, you can send an SASE to ARRL-VEC, to request a form 610-V by return mail as soon as they are available from Headquarters. Write "Form 610-V request" on the outer envelope.

- The ARRL Letter, 5/4/95

### FCC Issued Call Sign Update

The following is a list of the FCC's most recently issued call signs of May 1.

District	Group A Extra	Group B Advanced	Group C Tech/Gen	Group D Novice
0	AA0XH	KG0WA	++	KB0SIT
1	AA1NB	KE1BK	N1UZZ	KB1BQA
2	AA2XG	KG2CN	++	KB2ULC
3	AA3LK	KE3SY	N3VEA	KB3BHX
4	AE4HK	KS4VU	++	KE4ZNV
5	AC5CG	KK5NW	++	KC5OEV
6	AC6ML	KO6UK	++	KE6TKU
7	AB7JU	KJ7NE	++	KC7KRF
8	AA8TL	KG8QY	++	KB8ZEI
9	AA9ON	KG9CB	++	KB9KFO
N. Mariana	KH0R	AH0AW	KH0DW	WH0ABC
Guam	WH2O	AH2CZ	KH2NM	++
Midway	++	AH4AA	KH4AG	WH4AAH
Hawaii	++	AH6OC	++	WH6CVA
Amer. Samoa	AH8O	AH8AH	KH8CG	WH8ABB
Alaska	++	AL7QB	++	WL7CMN
Virgin	WP2R	KP2CD	NP2IF	WP2AHV
Puerto Rico	++	KP4ZK	++	WP4MYB

++All call signs in this group have been issued in this area.

- ARRL Bulletin ARLB049, 5/9/95

### New FCC Handout Gives Overview of Ham Radio

The FCC's Wireless Telecommunications Bureau has produced a new "fact sheet" on its Amateur Radio Service (PR-5000, Number 210). A lot of information is packed into two pages. A few tidbits:

"These services present an opportunity for self-training, intercommunication, and technical investigations.

"Twenty-seven small frequency bands .. are allocated to this service internationally.

"Some 1300 digital, analog, pulse, and spread-spectrum types may be transmitted.

"Millions of amateur operators in all areas of the world communicate with each other directly or through *ad hoc* relay systems and amateur satellites;

"All frequencies are shared. No frequency is assigned for the exclusive use of any amateur station.

"The FCC equipment authorization program does not generally apply to amateur station apparatus.

"The FCC rules are designed to promote the amateur service in the United States to provide emergency communications, advance radio technology, improve operator skills, expand the number of trained operators, technicians, and electronic experts, and enhance international goodwill."

- The ARRL Letter, 5/4/95

### Oklahoma Help Completed

The primary Amateur Radio operation in support of recovery efforts in the bombing of the federal building in Oklahoma City ended at 4 p.m. on Tuesday, May 2.

Amateurs had maintained a network continuously since 9:15 a.m. on April 19, with more than 300 operators from Oklahoma, Kansas and Texas providing communication through the Oklahoma City Autopatch Association repeater.

Amateur operation then shifted from the blast site to coordinating Salvation Army activities, on a simplex frequency. As of 4 p.m. on May 4, Amateur Radio operators in Oklahoma City had conducted emergency communication for more than 360 hours.

ARRL Public Information Coordinator Tom Webb, WA9AFM, said that those involved in the post-bombing communication effort credited numerous disaster drills, established Amateur Radio networks, emphasis on proper on-air procedures, and experience in weather spotting nets for the success of this operation.

Later this month, Oklahoma City amateurs will meet to discuss their activities and for a debriefing.

- ARRL Bulletin ARLB052, 5/10/95

### Maia Petition Rebutted by American Radio Relay League

The deadline for comments has passed on a petition for rule making to the FCC that would prohibit all one-way transmissions (below 30 MHz), such as code practice and information bulletins from W1AW.

The petition, RM-8626, was filed by Frederick O. Maia, W5YI, in March. The ARRL urged the FCC "in the strongest possible terms" to deny or dismiss the petition without further consideration. The ARRL said that Maia's arguments were overstated and inflammatory, in their use of words such as "chaos" and "crisis proportions" to describe what he sees as on-the-air disagreements among amateurs related to one-way transmissions.

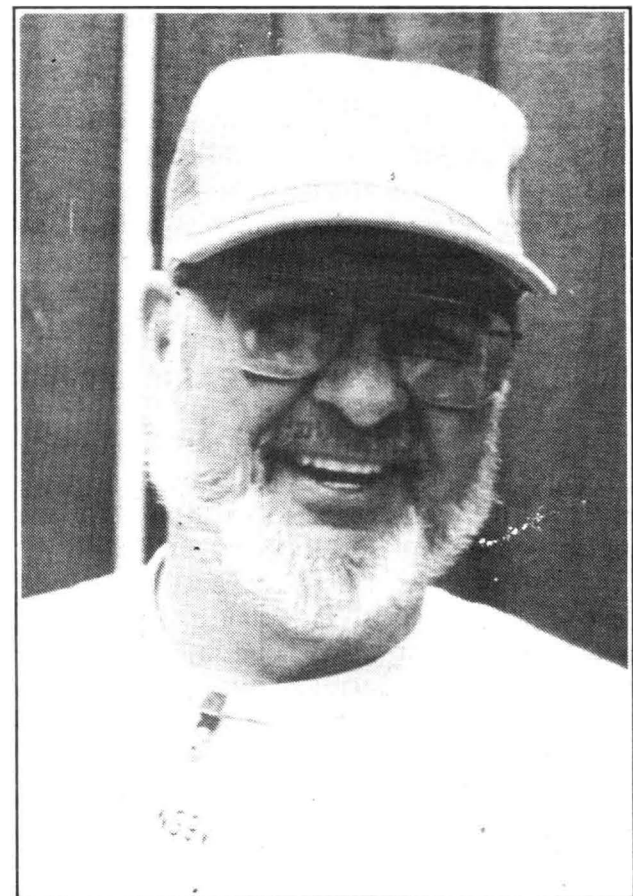
The League cited W1AW's 65 years of free service to amateurs; other countries whose amateur societies also conduct informational bulletins on the air; the absence of any allegations that W1AW creates any significant interference to ongoing amateur communications and the value of W1AW's bulletins in alerting amateurs to disaster situations.

The ARRL also said that since W1AW bulletins are not intended for the general public, they hence are not "broadcasting," according to definitions in the Communications Act, the ITU Radio Regulations, and the Amateur Service Rules. They are, rather, amateur communication that has no more potential for undue interference than two-way communication.

The League said that "any on-air anger perceived by Maia" ought to be the subject of FCC enforcement action, not rules changes, saying such situations were the direct result of the Commission "allowing abuses to continue for months and years rather than timely addressing them in the context of the existing rules."

- ARRL Bulletin ARLB051, 5/10/95

## NG9V: Madison's "Elmer"



Gari Berliot, NG9V, has been active with the Four Lakes Amateur Radio Club's Volunteer Examiner Team since the beginning of the VE/VEC program. Originally K9PBV, he was listening to K9EN and myself one evening as Ken and I were trying to come up with a name for our new column, in which we would list Amateur Radio upcoming examination schedules. We came up dry, but Gari didn't. He suggested we call it "The Test Point," and that's what the column has been called ever since. This photo was taken at the Madison Swap-fest in early April.

### License Renewal, Free Reminder

Who can remember things that happen once every decade? Renewing your Amateur Radio license every ten years is one of those long-term memory tests. If you forgot, there is only a two year grace period to remember and take action. If you don't remember after the grace period, you are no longer licensed! Also, you keep remembering that FCC processing time for renewal varies, but may take up to 90 days.

But not to worry. The ARRL has another benefit for members which is free of charge, reminding operators to renew their licenses before they expire.

Here's how it works. About four months before an ARRL member's license expiration date, ARRL Headquarters sends a renewal packet. It consists of a letter, FCC Form 610 with instructions, an envelope pre-addressed to the FCC, and several tips about streamlining the renewal process. Some of the tips are easy. When you renew, attach a copy of your license to the back of the Form. If you have lost your license, attach a letter explaining the fact. Keep a copy of all correspondence.

But if you are an ARRL member you don't have to remember these tips or worry about your license expiring. The ARRL renewal notice is

Please turn to page 13

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June 1995



## The Computer Corner

By Stan Kaplan, WB9RQR  
105 Martin Drive  
Port Washington, WI 53074-9654  
(414) 284-9346

### NO. 21: SERIAL AND PARALLEL

This time we will deal with how a computer communicates with the outside world through its ports and the cables connected to them. Why this topic? Because my ARES group (OZARES) recently had an exercise in which we set up and used several packet stations, and cabling gave us some trouble. One station was delayed in getting on the air for nearly two hours until we solved the problem, which turned out to be a bad cable. So, this time we will begin the topic and next time I will describe how to build and test your own cables. Hopefully, it will save you some time and grief, even if you are not dealing with packet - perhaps with just a printer or external modem problem.

First, what is this "serial" and "parallel" stuff we hear about when computer ports are discussed? The ports are, of course, those funny looking connectors on the back of your machine, usually called a D-shell connector because they resemble the letter D turned on a side. But what does the "serial" and "parallel" refer to? Really, it is quite simple. Those two words describe how data is sent down wires.

Suppose your computer is to send the letter A out a port. The letter A, like all other letters, characters and symbols, is represented in your computer as a series of 8 on/off switches. There is nothing complicated about this arrangement; you probably have a bank of 4 on/off switches in your house somewhere. One in mine controls two lights, the wall outlets and a ceiling fan. Computers basically work with banks of 8. Each switch can either be in the on position or the off position. The particular "pattern" that represents the letter A is as follows:

SWITCH NUMBER ----> 8 7 6 5 4 3 2 1  
a. switch state ----> 0 1 0 0 0 0 0 1  
b. switch state ----> - + - - - - +  
c. switch state ----> f n f f f f f n  
d. switch state ----> - X - - - - X

I have numbered the switches from 1 to 8 (with the first on the right and the eighth on the left), and indicated whether it is on or off using several

different methods. A switch is on if it is labeled with a 1 or + or n (on) or X; it is off if labeled with a 0 or - or f (off).

So that is the pattern for the letter A (in caps) But a lower case a is different. The pattern is:

SWITCH NUMBER ----> 8 7 6 5 4 3 2 1  
a. switch state ----> 0 1 1 0 0 0 0 1  
b. switch state ----> - + + - - - +  
c. switch state ----> f n n f f f f n  
d. switch state ----> - X X - - - X

See the difference? The sixth switch is on for the lower case letter and off for the upper case. That is the only difference. By the way, these are the actual binary representations of A and a; they are the actual ways these symbols are represented in your computer. Your computer knows, that if it is to show you these symbols on the screen, it must convert these binary numbers (which it can understand) to the funny looking angles and squiggles (A and a), which we humans can understand. Interestingly, the very first computers that were built had no such translation capability, and the humans that worked with them had to understand the binary patterns shown above. I bet every one of them wore glasses at the end of their careers!

Well now, if your computer is to send one of these symbols out a port, it really must send a pattern which represents the on or off state of 8 different switches. It can do that two different ways. First, it can send the 8 switch states down a single wire, like 8 people walking down a hall which is so narrow that they are required to walk single file. That is serial data, which means just that, single file, one after the other. Alternatively, if 8 wires are available instead of just one, your computer can send all the data in one batch. This is like 8 people walking down a very wide hall shoulder to shoulder - they are walking in parallel.

There you are. We have described serial and parallel ports (and cables). Now, if WB9RQR is not full of hot air, a serial cable will require fewer wires than a parallel. Correct! A standard parallel cable requires at least 16 conductors while a standard serial cable requires 9. Why not 8 and 1? Well, the other conductors are used for other messages that are necessary when sending data, such as: "here comes a series of 8 switch states" and "I just sent you the 8th in a bank of 8 switch states" and "I am ready to receive data" and "I am out of paper" and the like. Also, we hams know there has to be a signal ground, so a cable with only one conductor is not very practical.

Now that you understand serial and parallel, you are ready for cable building. Next month's installment will give you the wiring diagrams for standard serial and parallel cables, plus my own special formula for a "universal" serial cable that guarantees you will not have to stop your project to go to Radio Shack for one of those darned adapters.

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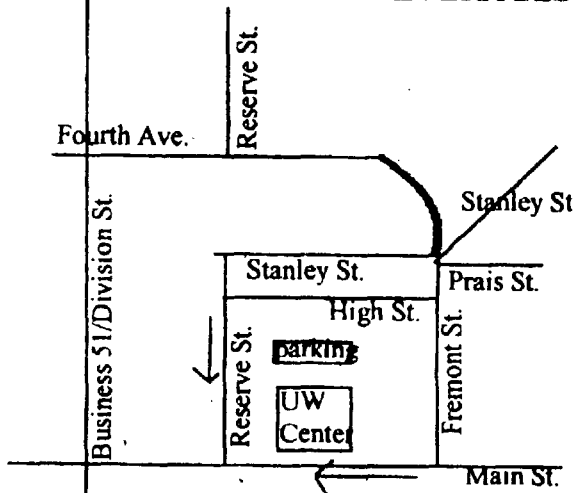
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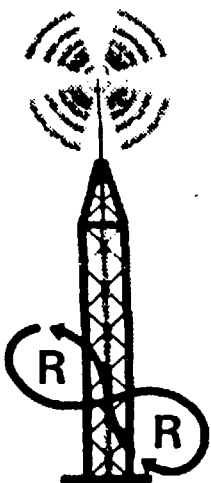
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<b>SINGLE OPERATOR - MOBILE</b>										
WB9HRO *	4	22	22	1	45	120	86	2000	11270	Four Lakes ARC
WI9M *	6	22	22	2	46	40	94	3000	9164	Ozaukee Radio Club
N9JUJ *	10	19	2	0	21	0	166	4500	7986	Watertown ARC
WD8DON/9 *	5	24	23	0	47	0	108	2000	7076	
KB9FTI *	4	21	3	0	24	0	88	1500	3612	Kettle Moraine ARC
WA9GON *	6	16	10	1	27	18	60	1500	3606	Fox Cities ARC
KE9PQ *	4	28	12	0	40	0	75	500	3500	NEWRL Op: N9RDC
KC9CI *	5	14	3	0	17	0	62	1500	2554	Kettle Moraine ARC
N9LKY *	2	10	2	0	12	0	34	500	908	Yellow Thunder ARC
N9EFX *	4	7	0	0	7	0	27	500	689	Watertown ARC
KB9JIR	6	6	0	0	6	0	24		144	Four Lakes ARC
<b>MULTI OPERATOR - MOBILE</b>										
W9IEI *	8	28	11	0	39	0	162	3500	9818	Fox Cities ARC Ops: W9IEI, WD9FLJ
NE9U	7	25	17	0	42	0	119	3500	8498	Central WI RA Ops: NE9U, N9BCA
WJ9H	1	36	12	0	48	0	106	500	5588	Ops: WJ9H, N0GAF, N9YJV
<b>MULTI-TRANSMITTER/MULTI-OPERATOR - MOBILE</b>										
N9EZ *	17	33	24	1	58	492	160	8500	46316	Kettle Moraine ARC Ops: N9EZ, N9KS
KC9RH	7	15	10	0	25	58	68	2000	5150	Four Lakes ARC Ops: KC9RH, KC9A, N9BAF
KC2AK	11	20	5	0	25	0	98	2500	4950	Four Lakes ARC Ops: KC2AK, N9PQN
<b>SINGLE OPERATOR - TECHNICIAN</b>										
N9QBU *	Dodge	30	2	0	32	0	102		3264	Fond Du Lac ARC
KA9JCP	7	14	2	0	16	0	41		656	West Allis RAC
N9YKZ	2	6	1	0	7	0	24		168	West Allis RAC
<b>MULTI-TRANSMITTER/MULTI-OPERATOR - FIXED</b>										
K9EAM *	Brown	38	31	1	70	100	184		19880	Green Bay Mike & Key Ops: KB9CGP, KB9EWK, KB9ITK, KB9JAI, N9NFF, WA9SWX, N9TLP, N9TNI, N9VJL, KA9YAW, AA9??
N9PAV	Brown	33	17	0	50	0	166		8300	Ashwaubenon HS Tech Club Ops: N9PAV, KB9ALN, N9PAW, N9PAY, N9UPU, N9VOM, N9YOB, N9YWO, N9ZDA
<b>* CERTIFICATE</b>										
<b>MULTI-OPERATOR FIXED</b>										
N9JCL *	Marinette	44	37	1	82	264	167		35342	Bay Area Wireless Assn. Ops: N9JCL, KG8CX, N9PQU, K0SN, N9XMQ, N9YKT
AA9AO	Brown	35	42	2	79	142	218	500	28940	Green Bay Mike & Key Ops: AA9AO, ND9Z
WK9M	Waukesha	36	32	3	71	160	165		23075	Kettle Moraine ARC Ops: WK9M, KB9AMG
KF9GP	Brown	37	35	0	72	0	225	500	16700	Green Bay Mike & Key Ops: KF9GP, N9DKH, KA9BXG



CALL	COUNTY	C	S	P	MULT	CW PTS	SSB PTS	BONUS PTS	FINAL SCORE	CLUB AFFILIATION
N9XHQ	Dane	17	31	1	49	154	63		10633	Four Lakes ARC Ops: N9XHQ, N9XJF
N9OEO	Outagamie	32	26	1	59	0	162		9558	Fox Cities ARC Ops: N9OEO, N9TNW
W9DK	Manitowoc	28	17	1	46	46	95		6486	Mancorad ARC Ops: WD9IAB, KB9INK, N9XER
WB9QFW	Portage	30	18	0	48	50	83		6384	Central WI RA Ops: N9JW, N9WBU
WS9X	Manitowoc	9	23	2	34	0	92		3128	Mancorad ARC Ops: WS9X, N9IQZ

## SINGLE OPERATOR - FIXED

W9WAQ **	Dodge	41	42	3	86	310	209		44634	Watertown ARC
KB9S *	Pepin	47	36	1	84	340	190		44520	Wabasha Area ARC
ND9O *	Winnebago	40	38	4	82	302	225		43214	Fond Du Lac ARC
N9CKC *	Dane	41	39	2	82	356	158		42148	Four Lakes ARC
N9FVN *	Lafayette	51	34	2	87	250	206		39672	
WA1UJU *	Waukesha	42	32	76	312	163			36100	Kettle Moraine ARC
WT9Q *	Dane	3	35	2	73	398	66		33872	Yellow Thunder ARC
NZ9Z *	Manitowoc	44	33	1	78	112	290		31356	Mancorad ARC
N9AU *	Milwaukee	35	37	1	73	238	183		30733	West Allis RAC
N9CQQ *	Oconto	44	29	1	74	168	191		26566	
KB9AIT	Outagamie	35	41	2	78	0	304		23712	Fox Cities ARC
AA9BJ	Sheboygan	32	26	1	59	282	96		22302	Sheboygan County ARC
W9MSE	Fond Du Lac	24	29	1	54	334	0		18036	Fond Du Lac ARC
K9OSH	Waukesha	24	37	1	62	150	135		17670	Kettle Moraine ARC
K3GGN	Ozaukee	17	35	2	54	326	0		17604	
W9CBE	Dane	32	24	1	57	240	54		16758	
K9ZZ	Columbia	33	21	1	55	158	96	500	14470	Yellow Thunder ARC
NF9V	Milwaukee	13	38	1	52	216	62		14456	Watertown ARC
WB9HCO	Waukesha	43	20	0	63	0	226		14238	Kettle Moraine ARC
N9AOT	Waupaca	39	27	0	66	0	210		13860	Fox Cities ARC
WB9RNL	Columbia	38	24	0	62	62	149		13082	Yellow Thunder ARC
N9HR	Jefferson	42	13	1	56	42	183		12600	Watertown ARC
K9KR	Racine	38	15	0	53	58	157		11395	West Allis RAC
WA9PWP	Dane	21	21	1	43	244	5		10707	Four Lakes ARC
W9OP	Winnebago	34	18	1	53	84	117		10653	Fox Cities ARC
KA9ZPX	Columbia	40	13	1	54	0	155		8370	Four Lakes ARC
K9QYC	Fond Du Lac	32	11	1	44	118	66		8096	Fond Du Lac ARC
N9JAK	Racine	21	24	2	47	130	32		7614	W/K ARC
W9UP	La Crosse	30	17	0	47	0	162		7614	Riverland ARC
WB9AZH	Racine	37	12	1	50	0	148		7400	Kettle Moraine ARC
N9VIB	Fond Du Lac	36	14	0	50	12	131		7150	Fond Du Lac ARC
WW1M	Milwaukee	34	14	0	48	50	95		6960	Kettle Moraine ARC
N9NOF	Brown	30	11	1	42	12	145		6594	Green Bay Mike & Key
N9ISN	Chippewa	38	11	0	49	0	133		6517	Badger Contesters
W9YCV	Milwaukee	40	7	0	47	54	82		6392	West Allis RAC
WA9WYI	Washington	31	12	0	43	52	93		6235	Washington County ARC
WU9E	Waukesha	23	15	1	39	158	1		6201	W/K ARC
K9WTF	Waukesha	28	19	0	47	0	118		5546	West Allis RAC
KB9FA	Winnebago	40	6	0	46	0	112		5152	
WD9FLI	Dane	30	11	0	41	34	90		5084	Four Lakes ARC
KF9SJ	Sheboygan	27	9	0	36	80	54		4824	Sheboygan County ARC
KE9ET	Dane	34	8	0	42	0	113		4746	Four Lakes ARC
K9DHR	Outagamie	33	7	0	40	18	85		4120	Fox Cities ARC
W9FBC	Winnebago	33	3	0	36	22	78		3600	Fox Cities ARC
WA9YVE	Jefferson	31	4	0	35	0	99		3465	Watertown ARC
KE9XN	Dane	30	6	0	36	0	86		3096	Four Lakes ARC
W9HE	Waukesha	10	20	0	30	102	0		3060	
WB9QFX	Winnebago	24	11	0	35	0	85		2975	Fox Cities ARC
N9WAR	Fond Du Lac	33	5	0	38	0	72		2736	Fond Du Lac ARC
KC9BY	Waukesha	29	4	0	33	0	80		2640	Kettle Moraine ARC
W9LXY	Racine	32	4	0	36	0	63		2268	Racine Megacycle
NK9G	Milwaukee	10	15	1	26	22	52		1924	W/K ARC
AA9AD	Dane	19	6	0	25	62	12		1850	Four Lakes ARC
KE9XZ	Dane	17	7	0	24	2	66		1632	Four Lakes ARC
N9DMS	Dane	24	1	0	25	0	65		1625	Four Lakes ARC
AG9G	Price	27	5	0	32	0	48		1536	Flambeau ARC
N9EZF	Fond Du Lac	1	21	0	22	0	64		1408	Fond Du Lac ARC
N9PBM	Outagamie	20	5	0	25	4	50		1350	Fox Cities ARC
KF9AF	Dane	1	23	0	24	0	54		1296	Four Lakes ARC
WA2ZAN	Dane	9	13	1	23	52	4		1288	Four Lakes ARC
NI9Z	Fond Du Lac	7	12	1	20	56	3		1180	Fond Du Lac ARC
KB9ECW	Manitowoc	21	1	0	22	0	51		1122	Mancorad ARC
KA9LAQ	Portage	23	4	0	27	0	40		1080	Central WI RA
KE9FT	Vernon	23	3	0	26	0	33		858	
WA9SZH/9	Adams	12	0	0	12	0	24	500	788	Four Lakes ARC
WB9PMF	Chippewa	16	6	0	22	4	26		660	R.C.R.A.
KB9GOX	Kewaunee	18	4	0	22	0	29		638	Mancorad ARC
N9RQF	Dane	13	5	0	18	0	33		594	Four Lakes ARC
W9BCC	Portage	15	2	0	17	0	25		425	Central WI RA
N9HDI	Dane	11	0	0	11	0	31		341	Four Lakes ARC
N9YWM	Milwaukee	11	1	0	12	0	28		336	W/K ARC
W9FJE	Milwaukee	13	1	0	14	0	24		336	West Allis RAC
WA9BPG	Waukesha	11	1	0	12	0	27		324	Kettle Moraine ARC
K9HAG	Kewaunee	14	1	0	15	0	16		240	Mancorad ARC
WF9X	Washington	7	1	0	8	0	28		224	
AA9HS	Dane	5	3	0	8	24	0		192	Four Lakes ARC
W9ODV	Sheboygan	11	0	0	11	0	11		121	Sheboygan County ARC
N9PZX	Kewaunee	2	0	0	2	0	4		8	Mancorad ARC

\* CERTIFICATE \*\* PLAQUE



# USA STATIONS

CALL	STATE	CW PTS	SSB PTS	WISCONSIN COUNTIES	FINAL SCORE	CLUB AFFILIATION
W6UQF *	CA	58	20	25	1950	
K6NA	CA	44	6	19	950	
KR4DI *	FL	0	33	16	528	
K9IAC	FL	0	15	13	195	
KB4GID *	GA	168	47	42	9030	
WB4RUA	GA	44	0	18	792	
K9OM **	IL	160	90	47	11750	
N9DJ	IL	40	71	32	3552	
K9UQN	IL	56	53	29	3161	
WA9ENA	IL	0	60	24	1440	
KE9LI	IL	0	37	25	925	
AC4HI *	IN	152	74	37	8362	Kentucky Contest Group
N9DHN	IN	34	50	31	2604	
K9DIY	IN	34	8	13	546	
N0XCF *	KS	0	3	3	9	
KA1VY *	MA	0	32	20	640	
WA1CUQ	MA	6	1	3	21	
W3ABC *	MD	90	2	25	2300	
K5ME	MD	92	0	23	2116	
KD3JA	MD	0	42	24	1008	
K1PQS *	ME	48	0	15	720	
WA1WPR	ME	6	0	2	12	
W8QM *	MI	56	20	22	1672	
K8KIR	MI	26	0	12	312	
K0YIP *	MO	110	40	39	5850	
WS9E	MO	24	34	23	1334	
N0IZZ	MO	50	3	19	1007	
N0WM	MO	38	0	15	570	
K1BV *	NH	62	17	21	1659	
AE2N *	NJ	46	0	16	736	
NS9E *	NY	64	20	27	2268	
N2PTF	NY	0	15	12	180	
WV8B *	OH	100	53	31	4743	
AF8A	OH	108	18	28	3528	
W5ONL	OH	46	47	26	2418	
VE3FRS *	ONT	116	0	23	2668	
VA3TEE	ONT	74	0	22	1628	
W3HDH *	PA	134	73	35	7245	
N3RJ	PA	126	35	27	4347	
KB3AFT	PA	60	32	23	2116	
N3CZB	PA	32	0	12	384	
KS4DU *	SC	34	0	12	408	
W9WI/4 *	TN	138	74	31	6572	
W5NR *	TX	34	1	13	455	
K6XO *	UT	80	18	24	2352	
K4UK *	VA	0	5	5	25	
KJ8J *	WV	100	15	26	2990	
K9YLI *	WY	0	12	10	120	

\* CERTIFICATE \*\* PLAQUE

## CLUB AGGREGATE SCORES • CLUB COMPETITION

CLUB NAME	SCORE	ENTRIES	WINNER
KETTLE MORaine RADIO AMATEURS ***	160889	11	N9EZ
FOUR LAKES AMATEUR RADIO CLUB	115904	20	N9CKC
FOND DU LAC AMATEUR RADIO CLUB	85084	8	ND90
WATERTOWN AMATEUR RADIO CLUB	83830	6	W9WAQ
FOX CITIES AMATEUR RADIO CLUB	83252	10	KB9AIT
GREEN BAY MIKE & KEY CLUB	72114	4	AA9AO
YELLOW THUNDER AMATEUR RADIO CLUB	62332	4	WT9Q
WEST ALLIS RADIO AMATEUR CLUB	55226	7	N9AU
WAUBASHA AREA AMATEUR RADIO CLUB	44520	1	KB9S
MANCORAD	42978	7	NZ9Z
BAY AREA WIRELESS ASSOCIATION	35342	1	N9JCL
SHEBOYGAN COUNTY AMATEUR RADIO CLUB	27247	3	AA9BJ
CENTRAL WISCONSIN RADIO AMATEURS	16387	4	NE9U
W/K ARC OF GREATER MILWAUKEE	16075	4	N9JAK
OZAUKEE RADIO CLUB	9164	1	WI9M
ASHWAUBENON HIGH SCHOOL TECH CLUB	8300	1	N9PAV
RIVERLAND AMATEUR RADIO CLUB	7614	1	W9UP
BADGER CONTESTERS	6517	1	N9ISN
WASHINGTON COUNTY AMATEUR RADIO CLUB	6235	1	WA9WYI
NEWRL	3500	1	KE9PQ
RACINE MEGACYCLE CLUB	2268	1	W9LXY
FLAMBEAU AMATEUR RADIO CLUB	1536	1	AG9G
R.C.R.A.	660	1	WB9PMF

\*\*\* TROPHY

# GENERAL COMMENTS

WQP 1995 - we had 157 entries, 109 from Wisconsin, 48 from the rest of the USA and Canada. 22 states sent in logs. One Canadian province sent in logs.

66 Wisconsin counties were represented, with Clark, Dunn, Eau Claire, Jackson, Menominee and St. Croix missing. 49 states (Alaska missing) and 5 Canadian provinces were found in the logs.

I went back and looked at the past 5 years, and 1995 is pretty much average. We had 84, 118, 143, 159 and 178 for total entries for 1990, 1991, 1992, 1993, and 1994. So, although band conditions were not good, as reported by some out-of-state stations, 1995 WQP did very well, considering. To me, that's still very good representation for a seven hour state QSO Party.

I thank all the many stations that participated, even just stopping by for one or two Qs. I hope you all had fun like I did.

I would like to thank the 19 mobile stations that sent in logs, as well as those who were mobile but did not enter formally. I suspect in their efforts to put "rare" counties on the air, we

lost a few of the common ones, counties that have always been on in previous years. While 1991 remains the peak year for most counties on (71 out of 72), 66 is probably average over the last 5 years also. I think the mobile stations deserve thanks from all of us for their efforts.

We did see an increase in the club competition arena. 23 clubs were included on the entry sheets.

Kettle Moraine, our #1 club again this year, had a decrease of 33% in their total. Four Lakes, Fond Du Lac, Watertown, and Fox Cities, round out the top five winners.

The WQP sponsor club, WEST ALLIS RAC, had a nice increase this year, because we had a few more club members participate. The club plaque will again be presented to Kettle Moraine Amateur Radio Club. Any other club out there want to give them a run for the plaque? Get your club active and see if you can win!

Our plaque for the best **WI SINGLE OPERATOR** entry goes to W9WAQ, Al Rothschild, who has entered WQP for as long as I can remember. Al had 155 CW Q's, 209 Phone Q's and 86 multipliers, scoring 44,634 total points. Congratulations, Al. This year WARAC is going to include a "Taste of Wisconsin" along with the plaque.

The plaque for the best **OUT-OF-STATE** entry goes to K9OM, Dick Van Zandt, from Illinois. Dick had 80 CW Q's, 90 Phone Q's and 47 WI Counties, for a score of 11,750 total

points. He also will get a "Taste of Wisconsin" along with his plaque.

The only other thing that needs saying is a comment I need to make on a subject that I have heard the most from participants over the years: **SIGNAL REPORT**. There is not and never has been a need for stations to exchange a signal report as part of the official exchange for WQP. Yes, it is done a lot. I suspect that occurs because of the nature of WQP - it is a contest, but it has a flavor that encourages casual operating. That means that when a station stops by to give a "point," usually a signal report is exchanged. Somehow, over the years, this has been interpreted to mean that it is required. NOT SO! What is **REQUIRED** is spelled out very clearly in the rules under **EXCHANGE**. Please, no more slips with your entries or verbal comments to us. If you want to exchange signal reports, that is your personal option. Thanks for your understanding.

Again, I want to thank ALL the stations who participated to a large degree or a small degree, whether they sent in a log or not, both fixed or mobile, county hunters or not, and those who were just casual contacts. **WITHOUT YOU ALL, THERE WOULD BE NO PARTY.**

See you on the second Sunday of March, 1996.

Lynn Tamblyn, K9KR,  
for the Wisconsin QSO Party Committee

## SoApBoX

I have been a ham for a long time, but mostly inactive. I was glad to use your contest to get back to my radio for a while. Thanks for being there!

- WA1CUQ

Did a lot of listening, but band conditions very bad. Had to fight to get 3 QSOs.

- WA1WPR

Good contest but where were all the CW ops? Did they go to ssb? Maybe you should have a class for CW only.

- AE2N

This is the second year I have participated and found it to be an interesting few hours of fun. Unfortunately, I only had 4 hours to operate because I had to be at a hamfest earlier in the day.

- W3ABC

Using 30 watts to an indoor loop.

- N3CZB

Best conditions here in years, and had to spend my time at an amateur radio club meeting. Three hours out of seven was not good for my score. Wait till next year.

- VE3FRS

It was a great contest. The 40 meter band was a bit flat this year. At its scheduled time, W1AW fired up right on my frequency for code practice without so much as a "howdy-do." See you next year.

- K3GGN/9

Good activity and thanks again to the mobiles and portables. See you next year.

- W3HDH

Thanks for a fun weekend! Gud to hear old timers keeping up the contest tradition. Thanks to all who allowed me to double my score this year.

- N3RJ

Wish I could have worked the whole test. Too much to do this weekend with the Charlotte Fest and other commitments. I really enjoyed the 2 hours and hope I helped out a few stations with an extra contact.

- KS4DU

I enjoyed the contest a lot, and especially enjoyed chasing the mobile stations. A big thanks to them (N9EZ in particular) for making the effort, and making the contest more fun.

- KB4GID

Great contest. Hope to do your contest again.

- AC4HI

This is the first time I have entered the WQP. Operated mobile enroute from Smith Mountain Lake to Washington D.C. area. Wasn't able to hear any WI stations on 20 meters and couldn't operate 80 meters. The foreign broadcast stations made 40 meters about useless in the afternoon.

- K4UK/M

A good contest. Most of the day the skip was too long on 20 meters to work Wisconsin from Maryland. A big thanks to N9EZ for putting a lot of counties on the air from his mobile. Wisconsin stations need to call CQ. I heard several WI stations working other WI stations, but could never work them. Stations outside the state shouldn't have to call "CQ WI," as I heard several doing. Come on guys, this is your day to be sought after - EXPLOIT IT.

- K5ME

Always enjoy the WI QSO party -- even when the propagation conditions are terrible. Weak signals, 7 MHz broadcast QRM, etc., don't help a bit!! Hope to C U all next time under better condx.

- W5NR

This year N9JCL gets the "farthest west QSO on 75M during daylight" award, for our QSO at 0046Z. I use a 2 el wire beam at 130 feet; he has good ears!

- K6NA

The beautiful WX over the eastern half of the county certainly affected the participation.

- AF8A

Nice operating event as usual.

- KJ8J

Thanks for a great QSO party again.

- AA9AO

Thanks to all! Great to be back after couple years away.

- WV8B

Couldn't work close in counties - skip favored southern counties.

- K8KIR

Nice to see a lot of participation in the QSO party even though we had poor conditions and great weather.

- KB9AIT

Great contest! QST exchange, sig rpt + county. BSSS exchange, county only?? (We had it right on the form, just as received on disk from the WQP sponsor - note sponsor's comment above -

BSSS editor.)

- AA9BJ

As usual I enjoyed the WI QSO party. Sorry I had so little time. Worked just about all the stations I heard, wished there were more counties. C U next year.

- K9DIY

Conditions stunk. Only 40 meters was reliably open. Still, it was a thrill to chase N9EZ/M through 5 counties, all for new multipliers.

- NS9E/2

I was able to work only 3 hours because I came back from Spring Green area. Someone said you can't work both mobile and fixed in the contest. Is that true?

- N9EFX

Thank you very much. We really enjoyed the party, as we have for the past year or two. We look forward to the 1996 party.

- WA9ENA and KE9LI

Hope to see you all during the 1996 WI QSO party.

- WD9FLJ and W9IEI

Thanks for another fun WI QSO party. My thanks for all the mobiles for all the multipliers, and all the out of state stations who gave contacts on several bands.

- N9FVN

All CW. Rig 100 watts as usual. Had an appointment at 2030 which took the rest of the day so not much of a score. However, the activity did not seem as great as in past years. Maybe I'm just getting too old.

- W9HE

Used a Texas Bugcatcher. Could hear other stations making QSOs, but could not contact them. Was operating just west of Clam Lake in Bayfield. Figure Project ELF's antenna was absorbing all of my RF. Moved to Ashland County and things picked up. Still can't log well and had to pull over to write several times. 17 Qs while moving this year. Wasted 30 minutes calling CQ on 75 UPPER sideband - must have bumped the button. Dog slept in the back seat the entire time.

- WB9HRO

256 miles, 10 counties, 7 hours and a lot of fun! Driving, talking and logging is a little tough. Also found many great hilltops have cemeteries. Most Qs on two meters, a few on 440. Maybe upgrade by next year.

- N9JUJ

This is an enjoyable contest even when condi-



tions aren't so good. C U next year.

- K9OSH

Thank you for another good contest. I'm looking forward to next year.

- N9QBU

And I thought last year's QSO party had bad conditions!!! I miss the in-state QSOs on 40 meters. Activity seems down this year. Guess everyone was out enjoying the warm weather. The out of state winner getting a plaque is a great idea.

- KB9S

Keep up the good work.

- N9UPU

With this call, CQing is a pain -- worked as many non-Wisconsin stations as Wisconsin ones! Always great to run into all the old locals.

- W9WI/4

Submitting this so stations that worked N0CXF -

Kansas get credit for QSO's.

- N0CXF

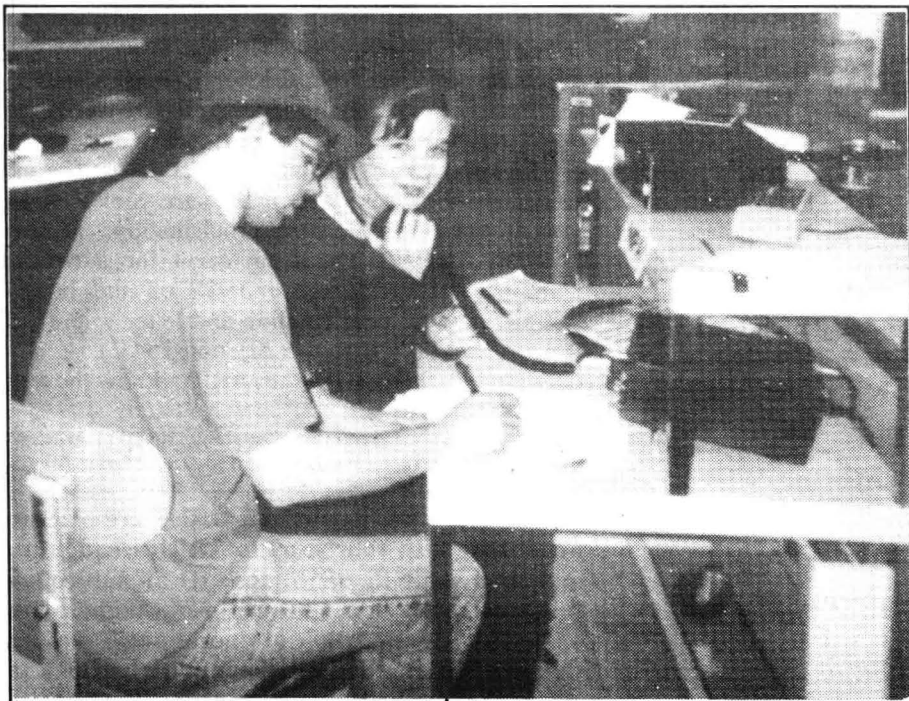
Thanks for QSO party on a cloudy, windy day.

- N0IZZ

Great contest, as usual. Great to run into so many "old" friends and to make a few new ones, too. Honored to have our humble paper carry the rules and the official results, and hope we can continue to serve the Wisconsin area Amateur Radio community for many years to come. Thanks!

- K9ZZ

## THE 1995 WISCONSIN QSO PARTY - IN PICTURES



### Ashwaubenon High School Tech Club Uses WQP to Encourage No-Coders to Upgrade

This year, the Ashwaubenon High School Tech Club decided to sponsor a contest station with one goal in mind: to get some of the new, young no-coders interested in HF. We opened our station at Ashwaubenon High School to the ham community. We had nine operators altogether. Three of the four no-coders planned to take their 5 WPM code tests at the April 8 swapfest. We mane not have had the highest score, but we think we are winners for getting no-coders interested in HF, and wanting to upgrade. The operators were Jason Engelbos, N9PAV; Scott Gigot, N9VOM; Justin Korpai, N9ZDA; Nick Kozloski, N9YWO; Chris Lankford, N9PAW; Andy Nemec, KB9ALN; Kristy Pigeon, N9YOB; Chad Styles, N9PAY; and Joe Tenor, N9UPU. In the photo, Chad Styles, N9PAY, is teaching Kristy Pigeon, N9YOB, the fine art of contesting.

- Joseph Tenor/N9UPU

## The West Allis Radio Amateur Club

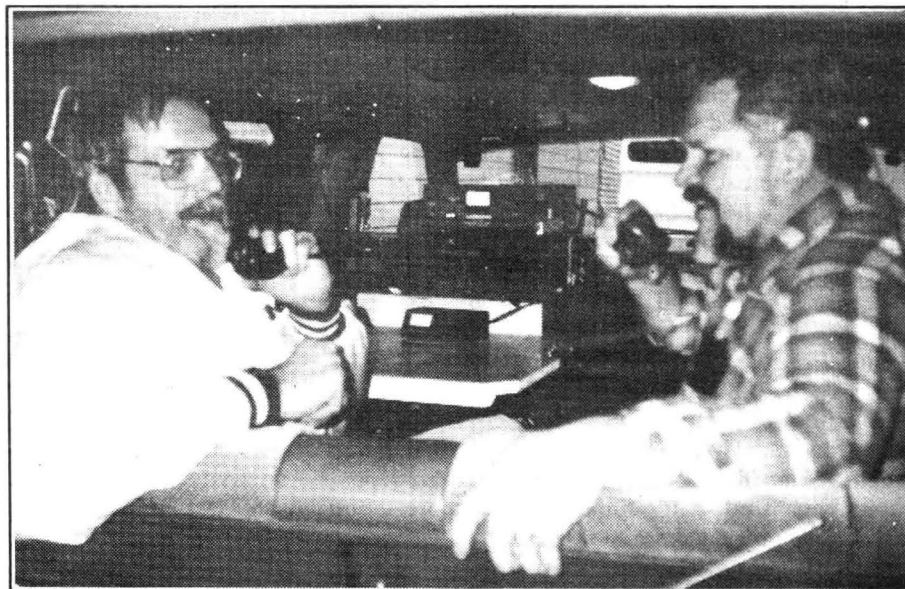
The West Allis Radio Amateur Radio Club, which is more than 40 years old, sponsors the Wisconsin QSO Party on the second Sunday in March every year.

The WARAC also sponsors a number of sizeable scholarships each year to help young people aspiring to attain their degrees in electronic or electrical engineering. These awards are available to licensed Wisconsin radio amateurs, and are administered by the Foundation for Amateur Radio in Maryland. Announcements of the scholarships are published in the Amateur Radio media in the spring every year, including in *Badger State Smoke Signals*.

WARAC also sponsors the annual Mid-Winter Swapfest at Waukesha every January.

And, most recently, the club began sponsoring the Worked All Wisconsin Counties Award, available to radio amateurs submitting proof of two-way contacts with all 72 Wisconsin counties.

Full information about any of the WARAC activities and awards is available by writing to the West Allis Radio Amateur Club, P. O. Box 1072, Milwaukee, WI 53221.



### WQP ala Mobile

**Mission:** Finish the 1995 WI QSO Party - Mobile Class

**Personnel:** 2 Crash-Test Dummies - W9IEI and WD9FLJ

**Vehicle:** Dodge Mini-Van

**Equipment:** HF - Kenwood TS-50S, Ameritron ALS-500 1 KW; 2M, 2M SSB, 440, 6M, 10M FM.

**Antennae:** Hustler system.

**Goals:** Stay alive, keep wheels on pavement, observe all rules, keep goals reasonable for two rookies.

The excitement of planning just how a couple of neophytes were going to run this contest started to build when Greg Schneider, W9IEI, asked me to work the contest with him, and that we would be running mobile class. I know that the whole reason that Greg put all of the mobile equipment into his mini-van was so he could take his station anywhere at any time. You see, Greg and I are emergency communications people for the local Red Cross, and this contest was a real good way of testing our abilities and the capabilities of the equipment inside that van.

Back in December or January, Greg mentioned to me that he wanted to do this the year before, but I had a prior commitment. He said we should start planning if we were going to do it this year. I said OK (and never let on to him that it was a dream of mine to operate mobile class *anything!*) As strange as it seems, I started to spend time looking at maps, studying county boundaries, and estimating mileage. All this was taking place while Greg was toying with his new Ameritron ALS-500 Kilowatt mobile amplifier, Kenwood TS-50S HF rig, and his Hustler mobile antenna system. Greg IS a mobile-class Field Day veteran.

The excitement grew and grew, right up to the first contact made in the QSO Party, and then intensified until about an hour after the contest was over, when we had tallied up a preliminary score. Greg and I both agreed that one of the things that makes this contest fun and exciting is that, unlike a lot of other contests, this one lasts only seven hours. This was our first try at the QSO Party, but we had set a preliminary goal of 5000 points, and would accomplish this by covering eight counties in the seven-hour duration. We exceeded our goal by almost 5000 points! And, we had time to spare at the end of the journey, too!

To sum up our first time out in the Wisconsin QSO Party: It was a blast! We had fun, we learned a lot of things that will help us in the future, and we started planning for next year about an hour after we had finished up the 1995 QSO Party! I think that, in itself, tells how a couple of rookies feel about the whole outing.

Hope to see you all during the 1996 Wisconsin QSO Party.

73, Wayne Pennings, WD9FLJ, and Greg Schneider, W9IEI Mobile Team

**The 1996 Wisconsin QSO Party will be on Sunday, March 10. See you then!**



# From Sparks to FAX

By Richard R. Regent

5003 South 26th Street, Milwaukee, WI 53221

In addition to its helpful 24-hour information telephone hot line, 414-466-HAMS, the Milwaukee Radio Amateurs' Club now has a 24-hour FAX number, 414-461-7730, which anyone can call to send written correspondence, questions and info to the MRAC!

Members can be contacted by radio on the MRAC repeater, W9RH, on 147.045 MHz, with a net on Fridays at 9:15 p.m. Other members are on the 28.4 MHz net on Fridays at 8:45 p.m.

The MRAC is the world's oldest continuously active radio amateur club - an old club with fresh innovative ideas. Club Secretary, Fred W9NZF, says, "We have been revitalizing the club, and encouraging new, younger members to become involved in club-related activities, and to make them feel welcome in a new old radio organization". The diamond anniversary, celebrating 75 years, of the Milwaukee Radio Amateurs' Club held last year was a success. MRAC is actively affiliated with the ARRL.

They have fascinating programs including guest speakers, technical demonstrations, video tapes, and an occasional home-brewers raffle of old radio components, plus an improved newsletter (*Hamateur Chatter*). The club also has a radio school covering all license classes and volunteers who can give exams.

Club President Ed, W9PWG, reports the Christmas party had 82 people attending who enjoyed delicious food, beautiful music, fun, door prizes and pretty flowers. Everyone got a *Milwaukee Radio Amateurs Club from Spark to Space 75 Years* pen, compliments of Ed. After dinner, several appreciation awards were presented:

- **WB9LNU** - Updating club history, chairing special event stations; working on the two-meter repeater and demonstrating a 1917 spark transmitter.

- **WA9SFH** - Creating a database of members and mailing the newsletters.

- **KA9MTY** - Assisting with mailing newsletter.

- **KA9OFA** - Preparing and editing the newsletter, club program on surface mount technology.

- **W9VLK** - Taking the monthly club attendance.

- **W9JK** - Volunteering as an examiner at the license testing.

- **WB9BWP** - Overseeing the Charles Kaetel Radio School activities.

The Club operated two special event stations from the Ozaukee County Pioneer Village, which is a 1840-1900's living museum about 12 miles north of Cedarburg, commemorating their 75th anniversary. Village arrangements are made through the coordination of W9NZF who is also President of the Ozaukee County Historical Society.

The MRAC Field Day event was held at the well attended Village, which happens to be one of the highest points in the county, has wide open dry fields and plenty of antenna room. W9NZF remarks, "We had one of our off duty operators act as a tour guide in explaining what the heck was going on!" Two special events were also held from the depot of the Village in the Fall.

Many members gather on Saturday mornings at 8:30 for breakfast at Maxims Restaurant to swap ideas over coffee and waffles. Their 10-meter net convenes on 28.4 MHz or on the MRAC repeater on 147.045 MHz every Friday at 9 p.m.

If you're in the Milwaukee area, check out the activities of the old, but new, MRAC. They meet on the last Thursday of the month, in the Wauwatosa Savings Bank basement, at 7500 West State Street, in Wauwatosa. If you need more information, ask them for their new brochure or just phone or FAX them. Best of luck to this fine group.

## Amateur Radio Week and Field Day: Score Points This Year With Great PR

This year's Amateur Radio Week officially kicks off on June 18, the perfect time to highlight the hobby and let your community share in some of that Field Day enthusiasm.

In the next few weeks as you think of how you'll power up that Field Day station, think too of ways you can generate some great publicity.

Your PR effort will reap rewards for your club, the hobby and of course, help you rack up points towards that final Field Day score!

Here are some ideas to help get you started:

Send press releases. Get them out to your local papers and radio stations. Don't forget to mention where folks can reach you beforehand, and then find you on Field Day.

Write a letter to the editor. The "Letters" section is one of the best read parts of a paper, so it's the perfect place to tell people about Amateur Radio Week. Extend an open invitation to stop by during Field Day and see what the hobby is all about.

Talk it up. Build ham radio awareness by speaking to schools, seniors or community groups.

Get the week proclaimed. Try to get the mayor to declare the week. And make sure your local paper gets a copy of the mayoral proclamation.

Call ARRL's PR department for a press kit. Complete with "backgrounders" on the hobby, a sample mayoral proclamation and letter to the editor, it's an essential PR tool. (203-666-1541.)

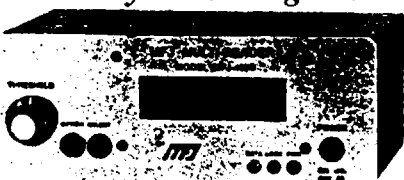
Good luck and let the ARRL know how your publicity effort goes.

- Jennifer Hagy, N1TDY, ARRL Media Relations Assistant in QSO Media, May 1995

Take photos of your Field Day crew at work! Send some with your score to ARRL Headquarters, and send some to BSSS, too. ID all subjects with full name, call sign, club or group name, class of operation, and location of operation. Take photos that show something happening; make them tell a story. Photos for this pub go to K9ZZ. See page 2 for the address. Thanks!

## Tap into secret Shortwave Signals

Turn mysterious signals into exciting text messages with this new MFJ MultiReader™



MFJ-462B MultiReader™ into your shortwave receiver's earphone jack.

Then watch mysterious chirps, whistles and buzzing sounds of RTTY, ASCII, CW and AMTOR turn into exciting text messages as they scroll across your easy-to-read LCD display.

You'll read interesting commercial, military, diplomatic, weather, aeronautical, maritime and amateur traffic... traffic your friends can't read... unless they have a decoder.

### Eavesdrop on the World

Eavesdrop on the world's press agencies transmitting *unedited* late breaking news in English -- China News in Taiwan, Tanjug Press in Serbia, Iraqi News in Iraq -- all on RTTY.

### Super Active Antenna

"World Radio TV Handbook" says MFJ-1024 is a "first rate easy-to-operate active antenna... quiet... excellent dynamic range... good gain... low noise... broad frequency coverage."

Mount it outdoors away from electrical noise for maximum signal, minimum noise. Covers 50 KHz to 30 MHz.

Receives strong, clear signals from all over the world. 20dB attenuator, gain control, ON LED. Switch two receivers and aux. or active antenna. 6x3x5 in. remote has 54 inch whip, 50 ft. coax.

6x2x4 in. 12 VDC or 110 VAC with

MFJ-1024 MFJ-1312, \$12.95.

Indoor Active Antenna

MFJ-1020A

Rival outside long wires with this *tuned* indoor active antenna. "World Radio TV Handbook" says MFJ-1020 is a "fine value... fair price... best offering to date... performs very well indeed."

Tuned circuitry minimizes intermod., improves selectivity, reduces noise outside tuned band. Use as preselector with external antenna. Covers 0.3-30 MHz. Has Tune, Band, Gain, On/Off/Bypass Controls. Detachable telescoping whip 5x2x6 in. Use 9 volt battery, 9-18 VDC or 110 VAC with MFJ-1312, \$12.95.

Compact Active Antenna

MFJ-1022

Plug this new compact MFJ all band active antenna into your general coverage receiver and you'll hear strong clear signals from all over the world from 300 KHz to 200 MHz -- including low, medium, shortwave and VHF bands.

Also improves scanner radio reception on VHF high and low bands. Detachable 20 in. telescoping antenna. 9 volt battery or 110 VAC with MFJ-1312B, \$12.95. 3/4x1 1/4x4 in.

Copy RTTY weather stations from Antarctica, Mali, Congo and many others. Listen to military RTTY passing traffic from Panama, Cyprus, Peru, Capetown, London and others. Listen to hams, diplomatic, research, commercial and maritime RTTY.

Listen to maritime users, diplomats and amateurs send and receive error free messages using various forms of TOR (Telex-Over-Radio).

Monitor Morse code from hams, military, commercial, aeronautical, diplomatic, maritime -- from all over the world -- Australia, Russia, Hong Kong, Japan, Egypt, Norway, Israel, Africa.

### Printer Monitors 24 Hours a Day

MFJ's exclusive TelePrinterPort™ lets you monitor any station 24 hours a day by printing their transmissions over your Epson compatible printer.

Printer cable, MFJ-5412, \$9.95.

### MFJ MessageSaver™

You can save several pages of text in 8K of memory for re-reading or later review.

### High Performance Modem

MFJ's high performance phaselock loop modem consistently gives you solid copy -- even with weak signals buried in noise. New threshold control minimizes noise interference -- greatly

improves copy on CW and other modes.

### Easy to use, tune and read

It's easy to use -- just push a button to select modes and features from a menu.

It's easy to tune -- a precision tuning indicator makes tuning your receiver easy for best copy.

It's easy to read -- the 2 line 16 character LCD display with contrast adjustment is mounted on a sloped front panel for easy reading.

Copies most standard shifts and speeds. Has MFJ AutoTrak™ Morse code speed tracking.

Use 12 VDC or use 110 VAC with MFJ-1312B AC adapter, \$12.95. 5/4x2 1/4x5 1/4 inches.

### No Matter What Guarantee

You get MFJ's famous one year *No Matter What™* unconditional guarantee. That means we will repair or replace your MFJ MultiReader™ (at our option) no matter what for a full year.

### Try it for 30 Days

Order an MFJ-462B MultiReader™ from MFJ and try it in your own setup -- compare it to any other product on the market regardless of price.

Then if you're not completely satisfied, simply return it within 30 days for a prompt and courteous refund (less shipping).

Order today and try it -- you'll be glad you did.

Receive Color News Photos, Weather Maps, RTTY, ASCII, Morse Code

MFJ-1214PC \$149.95

Use your computer and radio to receive and display brilliant full color FAX news photos and incredible WeFAX weather maps with all 16 gray levels. Also RTTY, ASCII and Morse code.

Animate weather maps. Display 10 global pictures simultaneously. Zoom any part of picture or map. Frequency manager lists over 900 FAX stations. Automatic picture capture and save.

Includes interface, easy-to-use menu driven software, cables, power supply, comprehensive manual and Jump-Start™ guide. Requires 286 or better computer with VGA monitor.

Super Hi-Q Loop™ Antenna

The Super Hi-Q MFJ-1782 Loop™ is a professional quality remotely tuned 10-30 MHz high-Q antenna.

It's very quiet and has a very narrow bandwidth that reduces receiver overloading and out-of-band interference.

High-Q Passive Preselector

MFJ-956 \$39.95

The MFJ-956 is a high-Q passive LC preselector that lets you boost your favorite stations while rejecting images, intermod and other phantom signals. Covers 1.5-30 MHz. Has preselector bypass and receiver grounded position. 2x3x4 in.

Mobile Scanner Ant.

Cellular MFJ-1824BB/BM look-a-like. Covers 25-1300 MHz. High - est gain on 406-512 and 108-174 MHz, 19 in. Magnet mount. MFJ-1824BB has BNC/UHF plug; MFJ-1824BM has Motorola plug.

MFJ-12/24 Hour LCD Clocks

MFJ-107B \$9.95

MFJ-108B, dual clock displays 24 UTC and 12 hour local time simultaneously. MFJ-107B, single clock shows you 24 hour UTC time. 3 star rated by Passport to World Band Radio!

MFJ-105B, accurate 24 hour UTC quartz wall clock with large 10 inch face.

MFJ Antenna Switches

MFJ-1704 \$59.95

MFJ-1702B \$21.95

MFJ-1704 heavy duty antenna switch lets you select 4 antennas or ground them for static and lightning protection. Unused antennas automatically grounded. Replaceable lightning surge protection device. Good to 5000 MHz. 60 dB isolation at 30 MHz.

MFJ-1702B for 2 antennas.

World Band Radio Kit

MFJ-8100K \$59.95 kit

MFJ-8100W \$79.95 wired

Build this regenerative shortwave receiver kit and listen to shortwave signals from all over the world with just a 10 foot wire antenna.

Has RF stage, vernier reduction drive, smooth regeneration, five bands.

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## Let's Use Morse Code!

Continued from page 4

University of Wisconsin - Eau Claire, Trace Research and Development Center at UW-Madison, and the John Hopkins University for Technology in Education.

People can communicate by using Morse code in interesting ways. My wife sometimes sends me code, such as in church or at a meeting, where talking could be overheard or would be inappropriate. When I see someone on a TV program using various devices to type on a computer, I always ask "Why don't they use code for communicating?" But now, with the help of Tom and others, Morse code research is in progress!

Do you have some experiences, successes, failures, tips, hints, equipment, techniques, ideas, questions and comments on this subject? Simply jot them down on paper and send it off to Dr. Thomas W. King, UW-Eau Claire, Eau Claire, WI 54702. Your thoughts would be most welcome.



SSB  
SELL SWAP BUY

OUR WANT ADS GET RESULTS

FOR SALE: KDK FM-2033 2-meter FM transceiver with subaudible tone encode. \$175.00. Jim Romelfanger, K9ZZ, 412 1/2 Ash Street, Baraboo, WI 53913. (608) 356-4031. Cash only, no checks. Proof of Tech or higher class Amateur Radio license required.

MAKE A REASONABLE OFFER on the following items: Channel Master rotor and control; base and roof antenna mount, 1 pair; Heath HM-102 SWR/Wattmeter; Ham keyer and paddle; Ten-Tec model 607 keyer; Shure 444 (Swan) mike; MFJ-1621 portable antenna; Two (2) pair headphones, Sony MDR-P1 dynamic, and TeTex 610-1, 600Ω; mobile mount for Kenwood 2-meter 9130 all-mode rig; muffin fan or blower, 5 x 5 x 1 1/2 inches. Erwin H. Peters, W9DOW, 600 Sharon Road, Sharon, WI 53585. (414) 736-2022.



## NEW PRODUCTS

ICOM INTRODUCES IC-W31A COMPACT DUAL-BAND HANDHELD



Icom introduces an ultra-slim dual-band handheld, big on performance and features. Measuring only 2.2 inches wide by 4.9 inches high by 1.2 inches deep, the IC-W31 fits comfortably in your hand, and can be easily carried in your shirt pocket.

A total of 104 memories may be displayed be either frequency or alpha name. Up to six alphanumeric characters can be programmed for quick and easy identification. Each band has 50 memory channels (43 regular, three pairs of scan edges and one call channel). Superior memory management allows you to easily transfer memory contents to either VFO or to other memories while an EEPROM prevents memory loss if the battery runs low.

Use the alpha display to create messages to transmit and receive up to six characters (using DTMF tones) for a simple message pager or to send acknowledgments. Six DTMF memories have up to 30-digit message capability.

A power MOS-FET module provides high power output even under low battery voltage. Three levels of power output are available, including economical low. Multiple power-saver functions (with current drain as low as 30mA) provide long operating times. A battery voltage readout allows you to monitor the battery condition. The IC-W31A accepts 4.5 to 16 volts external power supply.

The Icom IC-W31A has large, backlit keys for easy operation. Additional features include full crossband duplex operation. The transceiver's two dials are used for independent tuning on the VHF and UHF bands. V/V, U/U or V/U main/sub-band operation are also possible. Options include a new HS-85 headset and UT-93 tone decoder and tone scanner (CTCSS encode standard).

The suggested retail price for the IC-W31A is to be announced. For information on availability, please contact your local Amateur Radio dealer or Icom America, Inc., 2380-116th Avenue N.E., Bellevue, WA 98004, (206)454-8155.

*This device has not yet been approved by the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased until the approval of the FCC has been obtained.*

- Icom news release

### TigerTail™

Range Extender for 2 meter Handhelds

• Boosts Signal from Flex & 1/4 wave Antennas

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• Improves both Receive and Transmit

• Raises Low Power Performance

• Saves your Battery Pack

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• Snaps on Handheld

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## HERE AND THERE

Continued from page 5

automatically sent to make license renewal easy and gives members peace of mind.

Would you like to join the ARRL and get the free renewal notice plus many other benefits? You may get an ARRL membership application by writing to ARRL Headquarters, 225 Main Street, Newington, CT 06111, or please ask me for one. Thanks.

- Richard Regent, K9GDF  
Section Manager, Wisconsin Section ARRL  
5003 S. 26th Street, Milwaukee, WI 53221

### How to Get Hamfest Freebies

Would you like some freebies? Then be sure your club's hamfest is ARRL Sanctioned. Get lots of freebies, like a free package of ARRL publications to use as prizes, loads of handouts, *QST* publicity asking readers to attend and free mailing labels for your promotional campaign. If your hamfest sponsors an ARRL VEC exam session, you can receive an additional *ARRL Handbook* as a prize. If your club is an ARRL affiliate, as 50 are in Wisconsin, you might also want consignment materials and get a 10% rebate on any hamfest sales.

Does this sound good? Yes! Simply have one of your club's officers write to Gail Iannone, Convention Program Manager, American Radio Relay League, 225 Main Street, Newington, CT 06111, or phone her at 203-666-1541. Ask Gail about ARRL Sanctioned Hamfests. When you get the Hamfest application, follow the directions. It only takes minutes to complete and it's effortless. Our Central Division Director, Edmond A. Metzger, 1917 Lindsay Road, Springfield, IL 62704 will approve

the request (or let you know if there is any problem). I'll be advised that your hamfest is approved so I can tell others who can boost your attendance even more.

Your box of freebies will arrive in plenty of time before the event. Stan, WB9RQR, was pleased to receive two *Handbooks*, as well as other books, as prizes to give away at the Ozaukee Radio Club Swapfest on May 6th. Stan says, "The *Handbook* fills the information gap as an important book. It was read by some Nobel Prize winners." Having your hamfest ARRL sanctioned is good for Amateur Radio, the League, your Club and even visitors who can win those prizes and freebies.

- Richard Regent, K9GDF  
Section Manager, Wisconsin Section ARRL

### KinkProof G5RV QuickKits™

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**Fast & Easy to Build**  
• Fail-Safe visual instructions  
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• Everything included  
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**Quality Components**  
• Presoldered Silver Fittings  
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• 51 ft 40-10 Dipole  
• Quarter Size G5RV \$21.95  
• 26 ft 20-10 Dipole  
• ReadyMade 102 ft G5RV \$50.00  
• ReadyMade 51 ft G5RV/2 \$40.00  
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Want Plans, Patterns, Data? Order TechNote #124-D \$6.95 ppd USA

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### SEWFARS SWAPFEST

Ham Radio • Electronics • Computers  
Southeastern Wisconsin FM Amateur Repeater Society, Inc.  
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SUNDAY, MARCH 10, 1996 • WAUKESHA COUNTY EXPO  
CENTER ARENA • WAUKESHA, WISCONSIN  
Mail S.A.S.E. • Make checks payable to SEWFARS  
P.O. Box 102, Delafield, WI 53018  
Phone (414) 789-1034 • Talkin 146.820

## EAU CLAIRE AMATEUR RADIO CLUB SWAPFEST

State Fairgrounds Chippewa Falls, WI.  
SATURDAY JULY 22, 1995 from 7:30am to 2:30pm

\*FREE PARKING

\*FREE COFFEE

\*ALL INSIDE

\*DOOR PRIZES

\*COMPUTER EXPO

\*ADVANCE SETUP  
FROM 5PM FRIDAY

\*BUILDING SECURITY  
FRIDAY NIGHT

\*DRIVE IN SETUP WITH  
NO STEPS

\*LUNCH AVAILABLE  
ON GROUNDS

\*COMMERCIAL  
EXHIBITERS

\*LIMITED POWER  
AVAILABLE

INFORMATION AND RESERVATIONS  
N9TUA Carol Ceraso N9EQR Liz Searing  
(715) 723-9205 (715) 834-1303  
Eau Claire ARC  
P.O. Box 1867  
Eau Claire, WI. 54702-1867

W5YI VEC EXAMS  
Friday July 21 7-9PM  
Saturday July 22 9AM-1PM  
all walk-ins  
W9NW (715) 834-1303  
for information

### DIRECTIONS

- \* From Eau Claire- 53N to 124N through Chippewa Falls to fairgrounds
- \* From Rice Lake- 53S to Hy S to 124S to fairgrounds
- \* From East or West- 29 to 124N through Chippewa Falls to fairgrounds
- \*Talk-in on 146.31/91 Repeater\*

### TICKETS

Admission \$ 4.00  
Tables (non-comm) \$ 5.00  
Tables (commercial) \$10.00

### PACKET DEMO

Local BBS info  
packet cluster

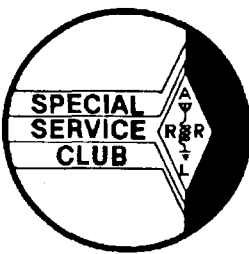
# PARTICIPATING CLUBS AND ORGANIZATIONS



## Riverland Amateur Radio Club

Tom O'Brien, WB9BJQ  
Secretary

Club mail address: P.O. Box 621  
Onalaska, WI 54650



### MEETING MINUTES MAY 2, 1995

Meeting was called to order at 7:00 p.m. by President Feroz, WU9N.

Minutes of the April meeting were approved as read. Jule, KA9UJL, made a motion to approve the March minutes as they appeared in BSSS, since they were not read at the April meeting.

Treasurer's report was approved as read. Marc, N9UNW, reported that the increase in dues did not apparently reduce the number of paid members this year.

Swapfest: Dick, K0JYB, reported that letters were sent to 14 vendors and that he will follow up with phone calls. Feroz, WU9N, suggested that we send some flyers to AES for distribution. Flyers are also being distributed in area Radio Shack stores. Vendors will be able to set up from 8:00 p.m. to midnight on Friday.

440 Repeater: It was announced that there is a possibility of buying a Wilson

repeater along with cavities. Committee members are checking to see if the frequency can be lower sufficiently.

Net: Mike asked for more volunteers for running the net this summer.

Field Day: Sign-up sheet was presented to group for helping on FD.

Tower: Greg has purchased a new winch with a break for the tower.

XYL group: Judy, N9LGV, suggested that we try to involve our significant others in club activities.

### NEW BUSINESS

Feroz, WU9N, presented the idea of incorporation as a not for profit organization. Motion was made by Walt, AA9AW, and seconded by Jule, KA9UJL, to have Kent investigate the possibility.

Walt volunteered to work on a committee to review the constitution. Volunteers were asked for to help Walt.

Meeting was adjourned at 7:50.

## Taylor County Area Amateur Radio Club

Mike Schoenfuss, N9GHZ, Secretary

P. O. Box 401 • Abbotsford, WI 54405-0401

### MEETING ANNOUNCEMENT

The next regular meeting will be held on Thursday, June 1st at 7 p.m. in the Emergency Government meeting room located in the basement of the sheriff's annex to the Taylor County Courthouse, corner of 2nd and Ogden Sts., Medford, WI. Talk-in on the 147.15 Medford repeater (+600 kHz) or 146.52 MHz simplex.

### MEETING AGENDA/PROGRAM

N9GHZ, Emergency Coordinator for the Taylor and Clark County Amateur Radio Emergency Service (ARES), will have a tornado spotter's training videotape available to show following the regular meeting.

### EXCERPTS FROM MINUTES OF MAY 4, 1995 MEETING

Meeting was called to order by President N9GEN. Present were N9UBQ, N9GHZ, N9FZD, KE4FE, KB9BLV, N9GEN, KB9IQL, KB9KBN, AA9LE and KA9WDX.

Minutes of the April 6, 1995 meeting were read by Secretary N9GHZ. Treasurer's report was presented by Treasurer KA9WDX. The *Badger State Smoke Signals* quarterly billing was paid. There were 3 new members or membership renewals at last month's meeting.

N9GHZ reported on the results of the simulated Taylor County ARES/SKY-WARN net held on April 27th. There were several positive comments made by those present about the National Weather Service tornado spotter's training that was held in Medford on April 19th.

N9UBQ, Taylor County Emergency Government Coordinator, discussed several Emergency Government items of business as they pertained to local Amateur Radio and ARES activities.

The secretary was directed to write to the Amateur Radio volunteer liaison for the Wisconsin Division of Emergency

Government for more information and clarification on the new 145.61 MHz statewide ARES packet radio frequency.

It was reported that the 147.15 Medford repeater seems to be working fine. It is unknown at this time if the transmitter crystal has been replaced yet.

Field Day and some upcoming ARES communications projects were discussed.

Meeting was adjourned.

### CLARK/TAYLOR COUNTY AMATEUR RADIO EMERGENCY SERVICE (ARES) NEWS

Mike Schoenfuss, N9GHZ  
ARES Emergency Coordinator

Don't forget to try to check into the weekly ARES net held Wednesdays at 8:30 p.m. on the Medford repeater (147.75/147.15). If the repeater is down or not functioning properly, alternate frequencies, in order, are 147.15 MHz simplex and 146.52 MHz simplex. You're also encouraged to volunteer for net control duty for the net.

Please note that Amateur Radio communications have been requested again this year for the Cancer Strides Walk-A-Thon, in Medford, on Saturday, 06/03/95, starting at 9 a.m. Approximately 6 operators are needed, utilizing either handheld or mobile radios. The entire course is located within the Medford city limits. If you can help with this event, please contact N9GHZ on the Medford or Granton repeaters, or simply show up that morning at the Medford City Park and give a call on the 147.15 Medford repeater.

Attendance at the National Weather Service tornado spotter's training sessions held recently in Clark and Taylor County was as follows:

Medford, 4/19/95: N9UBQ, N9UBR, N9MED, N9IFA, KB9BLV, N9GEN, N9XZI, N0IMJ, K9LRS and N9GHZ.

Continued on page 15

## Eau Claire Amateur Radio Club

Carl Searing, W9NW, Secretary

1129 McKinley Road • Eau Claire, WI 54703

### MEETING MINUTES MAY 9, 1995

The meeting was opened by VP Bert Spangler, W9ZZI, at 1940 hours, with about 35 members and guests present. After a roll call, secretary's and treasurer's reports were read and approved.

Fred Boetcher, WU9R, discussed Field Day plans. A meeting for FD participants will be held one-half hour prior to our next club meeting on June 13.

The "Mission Eau Claire" elementary school-science project start on May 10 will require volunteer advisors to assist the communicators.

Various aspects of the Dayton Hamvention experience were given by three local attendees: Gale Sorum, WD9HFT; Don Alm, K9UXP; and Joe Eide, KB9R. Evidently, the weather was great, crowds were large, and 15 acres of flea market took mucho time to browse.

WD9HFT told the club of a Wisconsin Association of Repeaters (W.A.R.) meeting to be at Cadott on Saturday, June 10, at 1 p.m. Gale said that there are few W.A.R. meetings in our section of Wisconsin, and that it might pay repeater officers and interested club members to attend.

Thanks to Wisco Sign Company for providing signage for the club trailer and

the club equipment cabinet.

It was noted that the election of directors, normally held in February, was forgotten. The club voted to retain the present directors: Joe Eide, KB9R; Dan Perkins, N9HME; and Carl Searing, W9NW, until February of 1996, when elections will be held.

W9NW mentioned that testing at the hamfest is to be similar to that of past years: Friday, July 21 from 7 to 9 p.m., and Saturday, July 22, from 9 a.m. to 1 p.m. 610 forms will be provided. All walk-ins.

Hamfest matters: Signup sheets for ticket-takers and table setup and teardown were circulated. Thanks to those who signed; more are welcome. Kitchen directors volunteered themselves. The kitchen will operate in the same manner as last year. Signage regarding waste receptacles, tickets, raffle license, flyers, and prizes were talked about, with some matters resolved. (Concerning dozens of prizes, it appeared that Dr. Don Alm, K9UXP, volunteered one on-site extraction with no Novocaine, but this will have to be verified.)

Lunch committee for June 13 meeting: KC9NN, W9NW.

Respectfully submitted:  
W9NW, secretary

## Racine Megacycle Club

Alex Voss, N9RGX, Secretary

3333 Standish Lane • Racine, WI 53405

### MEETING MINUTES MAY 8, 1995

The monthly meeting of the Racine Megacycle Club was called to order at 7:30 pm by president Paul, N9RGW.

All present introduced themselves. 19 were present this month. Among those absent was Alex, N9RGX, our secretary, so this month the minutes are being taken by Dave, AA9HL, treasurer.

The minutes from last month were approved after Cheryl, WS9P, noted that our special event station report was missing from the minutes. Let it be known now that the Racine Megacycle Club will be having a special event station on July 15 and July 22 during Racine's Salmon-a-Rama festival, which is the largest fishing derby on the Great Lakes. We will use the club call of W9UDU from 10 a.m. 'til 2 p.m. both days. Occasional operation is possible during the entire week. Look for more information on the K9RRS packet BBS and fine amateur publications such as *Badger State Smoke Signals*, *QST*, *CQ*, 73 and *Worldradio*.

The treasurer's report was read and all monies are still around.

Most business centered around Field Day 1995. The site has been secured and chairman Dan, KA9OIL, has committees ready to go. Since the Swan probably will not survive another Field Day, it was voted that Dave, AA9HLK, part with some funds and purchase a Scout 555 with 5 modules and a desk mike. Since we will now have a couple great radios, it was also voted to purchase a pair of G5RV antennas, which hopefully will get us great results and higher scores. We will definitely need them, since a couple of Illinois hams have challenged our club to a duel to see who can gather the most points. The loser will publicly announce their loss in this publication. I don't think we will lose now!!!!

### HAM CALENDAR Courtesy Racine Megacycle Club

Jun 11 Hamfest Stevens Point  
Jun 12 RMC Meeting  
Jun 23 RMC Fox Hunt  
Jun 24 FIELD DAY!

Jul 8 Hamfest at Oak Creek  
Jul 10 RMC Meeting  
Jul 15 Special event station \*  
Jul 21 RMC Fox Hunt  
Jul 22 Special event station \*  
Jul 30 HAMFEST RACINE!!

Aug 14 RMC Meeting  
Aug 18 RMC Fox Hunt  
Aug 26 Hamfest at Onalaska

Sep 11 RMC Meeting  
Sep 15 RMC Fox Hunt

Oct 6 RMC Fox Hunt  
Oct 9 RMC Meeting

\* Racine Megacycle Club, W9UDU, operating during Racine's Salmon-A-Rama.

The club also voted to donate one table at our hamfest on July 30 to the QCWA so they can sell things in order to generate funds for the next Southeast Wisconsin Ham Banquet. Since Dave, AA9HL, was not present at the last banquet, Larry, WA9JMO, presented him with a beautifully framed certificate of appreciation for his services to the ham community.

Results of the last hidden transmitter hunt were given by Dan, KA9OIL. The winner was KB9HSJ, Joe's team. Second was Dennis, WB9SVM, and third was

Continued on page 15



## Racine Megacycle Club

Continued from page 14

Dan, KA9OIL, who finished with eight minutes to spare. A new twist was added to this hunt: two transmitters were hidden and had to be found. Good job by all. Pizza was at Pias' Restaurant after the adventure was over. May 26th is the next hunt. Starting point has yet to be determined, but you can bet it will be another great time for all.

K9RRS, Bruce, informed us that he has the latest callbook on CDROM on his packet BBS. Check out 145.530 and give it a try.

Dan, KA9OIL, reported that we may encounter problems obtaining the room we use to hold our meetings. We have used the Red Cross for several years at no cost at all, and I think we take it for granted

that we will always be here. Such may not be the case. The Red Cross also needs to generate funds to keep doing their great job. They hold classes here, and people pay a good amount of money for the space to hold classes. The room divider is paper thin and, if we do have a meeting, we must keep the noise down so we do not disturb classes in session. The Red Cross would also like us to help them with their fund raising efforts. It could also boost our treasury, so I think we can work together and keep everybody happy.

This month the lucky winner (?) of the goody box was Joe, KB9HSJ. As he claimed his trophy, he was heard to exclaim "at least it's lighter this month".

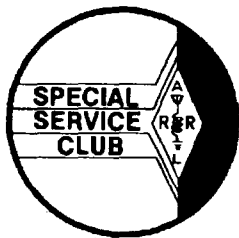
The meeting was adjourned, but I did not look at the clock to see what time it was, so let's say 8:30 p.m. or so. Most of us then proceeded to Reflections Restaurant for food and more talk.

Submitted by Dave, AA9HL, treasurer

## Mancorad Radio Club

Eric Rugowski, WD9IAB, Secretary

P.O. Box 204 • Manitowoc, WI  
54221-0204



**2-Meter Repeater: 146.01 Input/146.61 Output**

### MEETING MINUTES MAY 10, 1995

Club President Barney, N9XER called the meeting to order at 7:31 p.m. The minutes for the april meeting were approved by all, as printed in the "Smoke Signals." Treasurer Glen, AA9MT, then read the treasurer's report. This was also accepted by the club members.

Glen, AA9MT, then informed the club about the status of the hamfest to be held on May 13 by the club. A list of door, and raffle prizes being given away at the hamfest, was passed around, and these prizes were talked about by Glen. (The raffle prizes were: an HT; ARRL Handbook; and a 2M SWR/wattmeter; door prizes were various books, hats, and antennas.) Setup times, and other matters that pertained to the hamfest, were also discussed.

The club was then informed about longtime member Ken Tate, WB9OBX. Recently, Ken suffered a heart attack, and as a result of this, was transferred to St. Luke's Hospital in Milwaukee, where he underwent quadruple bypass open heart surgery. Ken is doing better, and by the time you read this, should probably be back home finishing his recovery. Hope you get well soon, Ken!

President Barney, N9XER, then showed the club the new S-Com 7K repeater controller that was recently purchased for the club's repeater. Ron, WS9X, mentioned some of the capabilities that this controller has which the club's old controller doesn't have (such as: a dictio-

nary for male and female voice ID; 400 macros [the old one only has 100]; and the capability to utilize software [available on diskette] that allows the controller to be programmed over the phone [Ron said the club should look into purchasing this]). The new controller should have hopefully been installed by the weekend of May 20.

President Barney also informed the club that permission has been obtained from the City of Manitowoc allowing the club to operate from its Field Day site in Siver Creek Park, after the park has closed for the night. Field Day is on the weekend of June 25 this year.

Kuby, N6JSX, then informed the club about several items of interest to club members. First, in order to help generate additional interest in the Thursday evening club net, (after discussion with Net Control Bob, KB9INK, and other club members) it has been decided that a technical roundtable discussion (on ham radio, computer, and other subjects) will be held at the end of the Thursday night nets. Hopefully, this will entice people who want a question answered, or want to just contribute some information about what is being discussed, to check in to the net, who otherwise might not have checked in.

Also, Kuby informed the club that upgrades have been made, to the packet software in the club's PBBS. This should help eliminate any awkward commands that previously had to be used in order to log into the system. Kuby also asked the club to consider installing a CD-ROM

Please turn to page 16

## Taylor County Area Amateur Radio Club

Continued from page 14

Neillsville, 4/20/95: N9GHZ, N9MHV and N9UWY.

Owen, 4/20/95: N9GHZ and N9UWY

In conjunction with Tornado Awareness Week in Wisconsin and a scheduled state-wide tornado drill, simulated ARES/SKYWARN severe weather nets were activated for both Clark and Taylor County on Thursday, 04/27/95.

The Clark County net was conducted on the 146.775 Granton repeater. Net control was N9GHZ. Check-ins were as follows: W9FPE, N9MHV, N9ZLU, W9LLB, N9RRF, N9TJY, N9LHY and WA9QOY. N9MHV acted as the net's liaison station, and made contact with other simulated weather nets or individual hams on the following repeaters: 146.82 (Marathon County), 146.91 (Eau Claire), 147.15 (Taylor County) and 147.18 (Marshfield).

The Taylor County net was conducted on the 147.15 Medford repeater. Net control was AA9LE. Check-ins were as follows: KE9LX, N9LHY, KE4FE, KA9WDX, N9IDW, N9UBQ, KB9BLV, W9QHI, KB9CBG, N0GMJ, N9MEH and N9MHV. Net liaison contacts were made with other simulated weather nets or individual hams on the following repeaters: 146.97 (Merrill), 3.985 (Wis. State Net), 146.775 (Clark County), 145.43 (Toma-hawk) and 146.82 (Marathon County).

### CONGRATULATIONS TO..

△ Jim Kline, KA9GCW, Ogema, who recently upgraded from Advanced to Extra Class.

△ Tom Wegner, N9UWY, Neillsville, who upgraded from General to Advanced Class on 04/15/95 at the VE test session held in Marshfield, WI.

△ Jim Horacek, KB9KBN, Abbotsford, who recently passed the exams to qualify for a Technician license.

### OTHER NEWS

\* An Amateur Radio license exam preparation course is being offered this summer at Thorp, WI. The course is for unlicensed persons wishing to obtain a Technician Class license, and current Novice Class licensees wishing to upgrade to Technician Plus Class. Both Novice and Technician theory will be covered.

Classes will be held in the community meeting room located in the basement of the Thorp Public Library on consecutive Monday nights, from 7:00 p.m. to 9:30 p.m., starting on June 5th and running through August 28th. There will be NO class held on Monday, July 3rd. Instructor for the classes will be N9GHZ. Students will be required to obtain the current (2nd) edition of the ARRL's "Now You're Talking!" license manual.

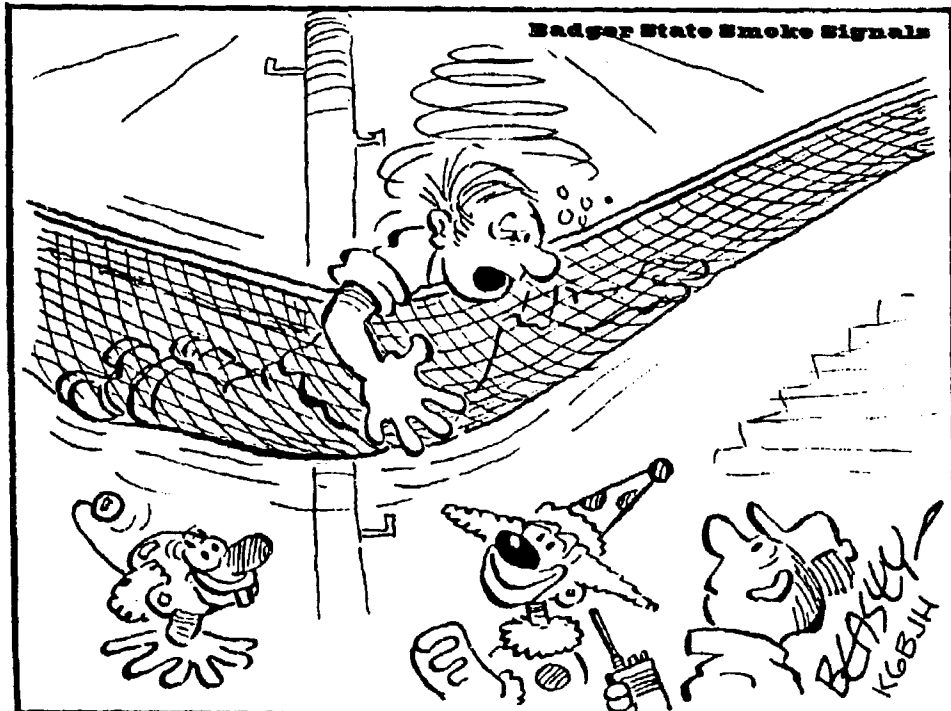
Anyone wishing to pre-register for the classes, or if more information is required, please contact Jim (N9IFA) or Nadeen Sahr, Lublin, WI, at (715) 669-3854.

\* The following is a list of those who I show as having paid their 1995 Taylor County Area Amateur Radio Club dues as of 5/12/95: N9ZLU, N9UBS, KB9BLV, KE9LX, KB9KBN, N9GEN, KA9WDX, N9UBR, N9FZD, WD9FWP, N9QWB, N9UBQ, N9GHZ, N9WKB, N9RRF, AA9LE, WD9ASX, WB9YME, WB9YMD, W9LEE, and N9UWY. If your name does not appear in this list and you wish to have your membership current, please make a check or money order for \$10.00 payable to Taylor County Area Amateur Radio Club, and either bring it to an upcoming monthly club meeting, or mail it to the current club treasurer: Bernie Jari, KA9WDX, W 3159 Hanley Lane, Medford, WI 54451.

PLEASE NOTE: If you have been a past member of the club, and were given the access code for the repeater autopatch, and you do not renew your membership for 1995, your autopatch privileges will be terminated and the access code will be changed.

\* The following is a list of those who I show as having paid for their 1995 Badger State Smoke Signals subscription through the Taylor County Area Amateur Radio Club as of 5/12/95: KA9WDX, N9GHZ, N9UBS, W9LEE, N9GEN, KB9BLV, N9RRF, N9WKB, N9ZLU, AA9LE, N9UWY, WB9YME, WB9YMD and N9QWB. If your name does not appear in this list and you wish to have your subscription renewed for 1995, please make a check or money order for \$6.00 payable to Taylor County Area Amateur Radio Club, and either bring it to an upcoming monthly club meeting, or mail it to the current club treasurer: Bernie Jari, KA9WDX, W 3159 Hanley Lane, Medford, WI 54451.

PLEASE NOTE: If you have been receiving Badger State Smoke Signals so far this year, and you do not renew your subscription for 1995, you will be dropped from the mailing list after the next quarterly billing is received. □



I ASKED THESE CLOWNS HOW I COULD GET INVITED INTO THE RETIRED CIRCUS PERFORMER'S NET, SO THEY THREW ME OFF A TRAPEZE!

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**...where every day is circus day!**

Continued from page 15

drive in the PBBS computer. This would allow the club access to some of the latest ham call data bases that are on the market, including other types of software. All of this CD-Rom software and data, would be accessible through the club's PBBS.

President Barney, N9XER, adjourned the meeting at 8:18 pm. Refreshments were then served.

Before I close out these minutes, I would like to thank everyone who helped out with the club's hamfest on May 13. Without your help, the hamfest, and the examination session at Silver Lake College, wouldn't have been possible. Thanks for helping to make this year's hamfest a success.

73, CU down the Log!

Eric Rugowski,  
MANCORAD Secretary

# MEETING ATTENDEES MAY 10, 1995

Eric

WD9IAB

Bill  
Jim  
Julie  
John  
Ken  
Glen  
Terry  
Barney  
Sharline  
Gene  
Dick  
Jeff  
Ken  
Mary  
Bill  
Kuby  
Chuck  
Craig  
Yogi  
Chuck  
Ed  
Ron  
Jan  
Red  
Clancy  
Howard  
Gene  
Len  
Carl  
Paul  
Bill

WD9ERN  
KB9GOX  
N9PZX  
NZ9Z  
WD9ERO  
AA9MT  
N9PZT  
N9XER  
  
N9UGA  
N9QFY  
N9XEV  
K9HAG  
KB9GOY  
N9XEZ  
N6JSX  
W9BZU  
N9VIC  
WN9Q  
N9WUN  
N9QIM  
WS9X  
N9IQZ  
N9GHE  
KB9ECW  
KE9YD  
WB9DQD  
N9QFO  
KA9ZTF  
N9QFX  
K9DUX

At University of Wisconsin, Stevens Point



WB9QFW 2 Meter Repeater 146.07.67 and Club Station

P. O. Box 923 • Plover, WI 54467

## MEETING MINUTES MAY 10, 1995

This month's meeting was held at the Stevens Point County City Building in Conference Rooms A and B next to the Emergency Government Office. Tonight's programs included a tour of the Emergency Government Office by Sandra Curtiss, the Portage County Emergency Government Director. Before the tour, we had a representative from the Green Bay Doppler Radar Office give us a presentation on the new Doppler Radar installed at Green Bay. He showed us a video which was made by the company who manufactures the system and a video of the office in Green Bay. He also had some overhead transparencies from the Doppler Radar out of Chicago, which they can hook up to, of the storm which spawned the tornadoes in Illinois earlier in the week.

President Lori Jasper, KA9ZGD, began the meeting at 9:00 p.m. Mary Eiden, KA9FAS, gave a brief secretary's report, as there was not a great deal to report on. The minutes were approved as printed in the BSSS. Joe Larson, N9JW, gave the treasurer's report, which was approved.

Bob Baird, W9NN, reported that everything is working fine on the .985 machine. Mike Pagel, KA9LAQ, reported that Jim Tuszka, N9MEB, hoped to have the .67 machine back on by the next day. He said that they would appreciate signal reports. Scott Jasper, NE9U, reported he will be meeting with Rich Maier (I hope this is the right spelling!), KC9NW, and Jim Tuszka to look over .67 for the 440 link.

Joe Larson, N9JW, sent a sign-up sheet for the Special Olympics. He stressed that volunteers must register by filling out the forms because of liability. Please fill them out when you get them and return them to Joe or to the Special Olympics. Registration Forms will be available at the games, at the Volunteer Tent, for those who did not receive one. Volunteer Orientation is scheduled for Monday, June 5 and Tuesday, June 6 at the Allen Center at 7 p.m. (Both nights.)

Lori, KA9ZGD, said that Al Mallek, K9WVM, would be taking in the shirt orders the next day so if you want one, talk with him.

Joe, N9JW, said classes are going well and will be finished in time for the exams at the Swapfest. Art Wysocki, N9BCA, sent a sign-up sheet around and asked for people to help get things set up at 6 a.m. on the day of the Swapfest. He said he has raffle tickets and asks that everyone pick them up. If you need more, please let him know. He reported all is going well with Swapfest planning. We have a number of dealers coming for this event. Scott, NE9U, said a Fox Hunt is still planned.

Lori, KA9ZGD, asked if anyone had noticed the article on the front page of the last BSSS about the petition from W5YI. John Feltz, WA9LWJ, made a motion to have the club send a letter to the FCC stating the CWRA's opposition to it. If the FCC passes this rule, all one-way transmissions such as code practice and information bulletins on the amateur bands below 30 MHz would be eliminated. After a brief discussion, the motion passed and Mary, KA9FAS, will send the letter out this week to the FCC with copies to the ARRL and W5YI's lawyer.

An announcement was made about the Wisconsin Valley Repeater Association Hamfest in Rothschild on May 27 at the Rothschild Pavilion.

The meeting was adjourned at 9:30 p.m. No program or meeting room was announced at the time this report was sent to the BSSS.

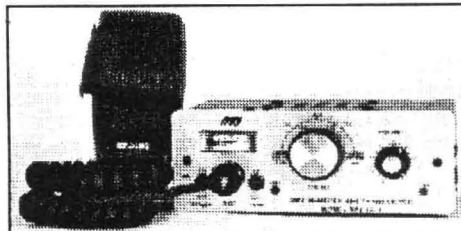
Respectfully Submitted:  
Mary Eiden, KA9FAS  
CWRA Secretary

## ATTENDANCE

Deb Kroll	N9EIL
Gene Kroll	KE9MA
Dave Olson	N9JQU
Joe Larson	N9JW
Mike Eiden	WD9JID
Al Mallek	K9WVM
Bob Baird	W9NN
John Feltz	WA9LWJ
Mike Peters	W9GHY
Joe Omernick	N9CGV
Scott Jasper	NE9U
Dave Golla	N9OVT
Mike Pagel	KA9LAQ
Art Wysocki	N9BCA
Lucy Wysocki	YL N9BCA

## NEW PRODUCTS

### MFJ-9420 20-METER SSB TRAVEL RADIO



MFJ Enterprises, Inc. announces the MFJ-9420, 20 Meter SSB Travel Radio ... only \$219.95.

Turn on the MFJ-9420, 20 Meter SSB Travel Radio and you'll marvel at how well it performs for only \$219.95.

You'll be amazed at how weak stations will roll in with surprising clarity when you purchase the MFJ 20 Meter SSB Travel Radio. During transmit, MFJ's exclusive Constant Current speech processor cuts through the noise and QRM like a far more powerful radio or an even more powerful tornado!

With your purchase of the 20 meter Travel radio, you will be able to take world-class DX performance along with exceptional power with you on your next vacation or business trip. The MFJ-9420, a microphone and your antenna will easily fit into your brief case or carry-on luggage.

At home, in the car, or on the road, you'll be amazed at what the MFJ-9420

can do! You get a simply operated, truly portable, and amazingly sensitive audio amplifier. The MFJ-9420 features a quiet, double balanced mixer front-end, single-conversation clarity, and plenty of gain with a powerful audio amplifier. If a signal is there, you'll pull it in loud and clear!

MFJ-9420 has a real calibrated S-meter, not a useless bargraph--this will make the 9420 a peaking tuner for finding the best beam heading clear-cut. The meter also monitors speech processing levels during transmit. With the MFJ-9420, you'll get no annoying synthesizer jump or obscure keypad commands to deal with. Enjoy effortless tuning with a custom built reduction drive ball-bearing VFO capacitor.

When you purchase the MFJ-9420, 20 Meter SSB TravelRadio, you're going to get big audio -- powerful audio -- even in heavily noise-populated locations. The big audio surprise comes from a special Signetics audio chip and a rugged three inch speaker.

You'll never have to lug around a heavy, bulky power supply to run your radio. The 9420 transmitter was specially designed from the ground up to deliver maximum talk power from popular easy-to-carry power sources, such as NiCaAd, D cells, or the special MFJ-4110 wall adapter power supply.

The MFJ-9420 was built-to-last! The bullet-proof Motorola PA transistor runs cool and easily tolerates 3:1 VSWR and

Continued on page 17



## SHEBOYGAN County Amateur Radio Club

Mike Musiel, KF9SJ, Secretary  
N9001 Dairyland Rd., Cleveland, WI 53015

The May 9 meeting of the Sheboygan County Amateur Radio Club was called to order by Steve, KF9KZ. The SCARC meets at the Red Cross Building, 2032 Erie Ave., Sheboygan WI at 7 p.m. on the second and fourth Tuesday of the month. There is usually no general membership meeting in February, because of the Banquet, and July, because of Field Day.

## MEETING SUMMARY

The only bids received for the sealed bid auction were for the excess tower sections. The winning bid was \$155.00. No bids were received for the quad antenna, and the club will be actively trying to sell it to by a new beam for Field Day operation.

Two items were raffled off at the meeting. A roll up J-Pole went to Tom, AA9BJ, and a complete Handi Finder kit went to Josh, KG9BO. Thanks to all who participated.

The club officer nominations were announced, and are as follows, for President - Chris, N9VKC, Vice President - Kurt, N9ZMO, Secretary - Mike, KF9SJ, Treasurer - Steve, N9TRK, and Board Member - Larry, WB9FXQ.

Incoming Emergency Coordinator Francis, AA9LV, updated us on changes in emergency operating procedures and weather nets. Those interested in the new procedures can reach him via packet at NF9R, or direct via his packet mailbox on 144.99 MHz.

The education / V.E. committee, i. e. Tom, AA9BJ, reported that the next test session would be May 11. We are pleased to report that there will be several new hams in the area, and will list them as soon as they receive their calls. Contact Tom, or any board member, to find out more information on classes or testing. The classes and testing have recently been held at Sheboygan Falls High School. We would like to thank S.F.H.S. and Mike, KB9DBH, for making these facilities available to the ham community.

Tom, AA9BJ, reported that this has been a very eventful DX month for the Sheboygan area. Congratulations go to Chris Bauer, W9RF, for making the Top of Honor Roll with 340 countries. He's worked them all! Chris is 80 years young, and has been a ham since 1945. Also kicking up the either was Lyle Tenpas, WE9R, with a honor roll for working 317 countries. You don't have to be a "old timer" to hit the list either, Bruce Broder, KG9AN, has made his DXCC with 104 confirmed. Bruce has been a ham for less than a year.

The group took a break for the all important munchies. Thanks Chris. N9-

TCJ, for keeping the club members' appetites at bay.

The presentation was by Penny, N9TCF. Penny showed the popular Field Day video from last year, and went over the preparations for this year's Field Day. As of press time, we were still in need of large tents and/ or camp trailers. If you can help out, or would like to participate, contact Penny for more information.

## OTHER CLUB EVENTS

We had another enthusiastic Fox Hunt on May 13. Five teams went out into the pouring rain and hail to find the foxes Steve, KF9KZ, and Charlie, N9SVV. Congratulations to Kurt, N9ZMO, for finding the fox first. Fox hunts are normally held the Saturday following the club meeting. This is not a hard set date, so stay tuned to the Monday night fun net for the latest info.

## NETS

**Monday Night Fun Net.** Meets at 7 p.m. local time on 147.06 MHz (+107.2PL). All with an Amateur Radio license of Technician class or higher are welcome to check in to this informal get together.

**Monday Night 10 Meter Fun Net.** Meets around 7:30 p.m., generally following the 2 meter net. The net meets on 28.350 MHz (USB), and all code class Amateur Radio operators are welcome to check in.

**Sunday Night Packet Net.** Meets at 6:30 p.m. local time on 144.99 MHz (AX.25, 1200 baud). The new log in procedure is connect to NF9R-8, then type T after you receive the node connect message.

**Sunday Morning Coffee Clutch and G5RV Net.** New Time! The net now meets at 9 a.m. local time on 3.860 MHz (LSB). The net has moved up in time to reduce interference. All radio amateurs of General Class or higher are welcome to attend.

## SCARC CALENDAR

Please note: All scheduled presentations are subject to change.

**June 13:** Social Meeting, last one before Field Day! Election of club officers. Presentation on mobile emergency preparedness by Francis, AA9LV.

**June 24-25:** SCARC Field Day at Taylor Park, Sheboygan. General membership club meeting for July to be held before the start of Field Day.

Submitted by Michael J. Musiel, KF9SJ



## Red Cedar Repeater Association, Inc.

Steve Hart, KA9OMC, Secretary

E616 810th Avenue

Knapp, WI 54749

**2-Meter Repeater: 146.01 Input/146.61 Output**

Greetings RCRA sponsors and guests.

The last spring social hour was held in Menomonie on April 25th. Balance on the account at the close of April's business was \$617.84. The following were in attendance:

N9VOY, Bob Rose  
KB9AGC, Mel Stang  
WB9PMF, Tim Rose  
NX9F, Jim Ley  
KF9CU, Arlene Kraft, and OM Dave  
N9PPE, Jeff Cole  
N9TTV, Glenn Thompson  
KA9OMC, Steve Hart  
N9LIJ, Jim Fitzl  
KA9PVY, Ken Reetz

Congratulations go out to our local hams receiving diplomas. Cory Zito, Mike Kaun, and Steven Kraft received money from the RCRA that was donated by one of our sponsors under the heading "Something for Youth". The RCRA also recognizes Christine Fuller with a subscription to BSSS. Best of luck.

KF9CU, Arlene, reports son Steven has landed employment with Contact Computers of Edina, MN. KE9RW, Steven, will reside in Eden Prairie and has received the job title "Associate Consultant for the Network Systems Architecture". Arlene also presented the association with another food label drive check for \$6.

Sorry to report WB9WKO's (Ron) father passed away.

All ten persons present at the social hour signed onto a protest against NPM 8626, which would have banned WIAW from the airways. The protest read, "We see no need to change any rules regarding one-way transmissions like WIAW and code practice training." It is obvious to us that we find no existing problem finding spectrum to operate even with these transmissions.

NX9F, Jim, reports son Mike, N9GQU, will be participating in the solar vehicle race that is scheduled for cross country.

Get well wishes go out to KF9GU, Howard, at Bloomer, who is recovering from foot surgery.

NX9F, Jim, conducted a SKYWARN drill net on Thursday April 27th as part of Tornado Awareness week. About 14 people participated in the net held on the repeater.

Please welcome back N9TTV, Glenn Thompson, as our latest sponsor. Thanks, Glenn.

Join the fun on June 3 just east of Hwy 63 intersecting Hwy 64 on Hwy 64 east of Forest, WI. This is the annual experimenters' swapfest at the home of WJ9Y, Marilyn Hostvet. Buy, sell, trade or giveaway radio & electronics from 8:00 a.m. to 5:00 p.m. Call in on 145.13 or call 715-265-4363 for more info.

RCRA Secretary/Treasurer  
KA9OMC, Steve Hart

## Last Minute Briefs

**SCHEDULE UPDATE FOR CALL SIGN APPLICATIONS:** At (ARRL Letter) presstime, FCC Form 610-V - the form necessary for applying for a vanity call sign - was not yet available. When it is, a WIAW bulletin will carry the announcement. Requests for the form may be made now, to the FCC Forms Distribution Center (800-418-3676 or 202-418-3676), or by sending an SASE to the ARRL-VEC (write (Form 610-V request" on the outer envelope).

Applications for amateur vanity call signs will not be accepted until some time after the forms are available from the FCC. The Commission will make a public announcement of the date of opening of the first "gate" for vanity call sign applications.

**NEXT SAREX JUNE 8; ANOTHER ON JUNE 19:** The next Shuttle Amateur Radio EXperiment (SAREX) flight is scheduled for June 8. STS-70's crew includes Mission Specialist Donald A. Thomas, KC5FVF, who previously used ham radio from the space shuttle *Columbia* during STS-65 in July, 1994. The mission is scheduled to conclude June 16. At least ten schools are scheduled to have students talk with the astronauts on two meters.

Here are the Amateur Radio frequencies for STS-70:

**FM voice downlink:** (Worldwide) 145.55 MHz.

**FM voice uplink:** 144.91; 144.93; 144.95; 144.97; and 144.99 MHz.

**FM voice uplink:** (Europe only) 144.70, 144.75, and 144.80 MHz.

**FM packet downlink:** 145.55 MHz.

**FM packet uplink:** 144.49 MHz.

(The call signs used will be KC5FVF on FM and W5RRR-1 on packet). The next scheduled SAREX flight is STS-71, on or about June 19, 1995, including Pilot Charlie Precourt, KB5YSQ, and Mission Specialist Ellen S. Baker, KB5SIX.

How many US astronauts have Amateur Radio licenses? Counting those who are retired or in administrative positions, there are 35; three more astronauts,

## Silent Keys

William S. Vander Galien, K9-IKA, 97, of Randolph, Wisconsin, died Monday, May 1, 1995.

Roger C. Prahl, WA9PDX, 83, of Baraboo, WI, died Saturday, May 13, 1995. Survivors include his wife, Ann, two daughters, and a son, Don, KV7Q, of Green Valley, Arizona.

who've been assigned to future shuttle flights, are studying for their licenses. Nine more are non-US licensed astronauts/cosmonauts.

**LEAGUE MEMBERS RALLY TO BACK WIAW:** The deadline for comments on a petition for rule making to the FCC that would prohibit all one-way transmissions (below 30 MHz), such as code practice and information bulletins from WIAW, was May 4, 1995.

The petition, RM-8626, was filed by Frederick O. Maia, W5YI, in March. The ARRL urged the FCC "in the strongest possible terms to deny or dismiss the petition without further consideration."

The ARRL said that Maia's arguments were overstated and inflammatory, in his use of words such as "chaos" and "crisis proportions," to describe what he sees as on-the-air disagreements among amateurs related to oneway transmissions.

The League cited WIAW's 65 years of free service to amateurs; other countries whose amateur societies also conduct informational bulletins on the air; the absence of any allegations that WIAW creates any significant interference to ongoing amateur communication; and the value of WIAW's bulletins in alerting amateurs to emergency situations.

(If the Commission gives any further credence to Maia's petition, it's time to get rid of the Commission's current staff and replace it with people who can actually think. - BSSS editor.)

- Condensed from *The ARRL Letter*, 5/16/95



## Washington County Amateur Radio Club

Tom Waldschmidt, N9LZW,  
Secretary  
465 Elder Lane  
Allenton, WI 53002-9799

**Club Repeater: 146.73 MHz**

## MEMBERSHIP MEETING MAY 11, 1995

The May 11th membership meeting of the Washington County ARC was called to order at 7:35 p.m. by President Walt Gossfeld, N9LLS. There were 16 members and 2 guests present.

The Secretary's report was read by Tom, N9LZW. Gary, W9XT corrected the minutes to reflect that he would only be at the AES sponsored Superfest '95 on Saturday, May 20. Motion by Don, K9GR, seconded by Paul, W9SIZ, to approve the minutes as corrected. Motion carried.

The Treasurer's report was read by Tom, N9LZW. Motion by Chris, N9ZES, seconded by Bob, N9LNZ, to approve the Treasurer's report. Motion carried.

Repeater Committee report was given by Don, K9GR. Don explained that he is making modifications to the RF power amp of the club's repeater. We need a 10 dB MICOR preamp with part number TLD8421B for the repeater. We also need a PL resonator with frequency of 127.3 for the transmitter. Volunteers were asked to report to the tower site on Monday afternoon to install ground radials.

Tom asked members to add item number 2(a) to the Severe Weather criteria handouts. Item 2(a) is a wall cloud which should now to be reported.

Sherm, W9NGT, explained that the Sullivan office of the National Weather Service now has an operational packet station.

There was more discussion on a club banner. Don, K9GR, has offered to work on a design for the banner.

Paul Ripple, W9SIZ, will be this year's Field Day Chairman. Rip asked for a showing of hands of those who will be operating for Field Day.

Tom, N9LZW, explained that the Emergency Government Station was now operational and offered to take everyone in

to see it following the meeting and homebrew contest.

Tom, N9LZW, checked on reservation requirements at Riverside Park, and none are needed for the outside facilities.

Walt, N9LLS, explained that we have authorization to use the St. Lawrence Fire Dept. site for Field Day.

There was no new business. A motion was made by Don, K9GR, seconded by Paul, W9SIZ to adjourn the meeting. Motion carried.

Following the meeting, two members presented homebrew projects. Gary, W9XT, showed and explained the CW IDer that he designed and built for the club's repeater. Gary said he spent about 3 hours on the hardware work and 8 hours writing the program for the chip that is used. Bob, N9LNZ, explained and showed pictures of his 2-element, reduced-size quad antenna that he built for his home station. Bob estimated the cost of parts at around \$40.00. A vote resulted in N9LNZ and his antenna being selected as this year's winning project. In addition to the improved performance Bob gets with his antenna, his effort has won him a free one-year membership in the Washington County ARC.

After the meeting and program were completed, Tom, N9LZW, escorted most of those present to the Sheriff's Dept., where they were able to see the dispatch center and Emergency Government station.

## Saturday Morning Breakfasts

06/03/95 9:00 a.m., Fay's in West Bend

06/10/95 9:00 a.m., Corfu in Hubertus

06/17/95 9:00 a.m., Jimmy's in Jackson

06/24/95 7:00 a.m., Slinger Inn in Slinger (earlier time due to Field Day setup) □



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FOR SALE: HP Jet Desk 560C printer, only one month old. \$400 or best offer. Write Ed Van Sickle, NQ9X, Route 2, Box 24, Whitehall, WI 54773. □

## NEW PRODUCTS

*Continued from page 16*

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- MFJ news release

## CQ Introduces 1995 "Beginner's Guide to Amateur Radio"

(Hicksville, New York) -- "Now, what do I do?" It's an all-too-common question among new ham radio operators, particularly if they've studied for their licenses on their own and haven't had much opportunity to meet active, experienced amateurs. CQ, The Authority on Amateur Radio, serves up the answers to new hams' most common questions about equipment and operating in its 1995 *Beginner's Guide to Amateur Radio*.

Editor Edith Lennon, N2ZRW -- a new ham herself -- has assembled a lineup of writers who share not only many years of experience in Amateur Radio, but also the ability to explain the sometimes-daunting hobby in plain English. The *Guide* is divided into three sections: Feature articles with practical advice for beginning hams; a comprehensive Directory of equipment, antennas, software and reference material, and a Directory of Amateur Radio manufacturers and dealers.

Feature articles include: "Operating on the VHF and Above Bands" and "Your First QSO," by CQ magazine VHF editor Joe Lynch, N6CL; "Packet Radio the Easy Way," by CQ packet editor Buck Rogers, K4ABT, "Popular Antennas for the Beginner," by Paul Carr, N4PC, and "Super Software for Amateur Radio," by CQ software columnist Karl Thurber, W8FX.

In addition, there's advice on learning more about ham radio and upgrading your license, including: "Making the Transition to HF," by CQ contest editor John Dorr, K1AR, "DXing Without Sunspots," by Chip Margelli, K7JA, "License Preparation for Your Ham Radio Ticket," by renowned instructor Gordon West, WB6-NOA, plus "Exploring Your Hobby" and "Ham Radio on a Shoestring," by Rich Moseson, NW2L, producer of CQ's award-winning "Getting Started" video series.

CQ's 1995 *Beginner's Guide to Amateur Radio* retails for \$5.95 (US), and is available from many ham radio dealers and directly from CQ Communications at 1-800-853-9797.

The CQ *Beginner's Guide to Amateur Radio* is published by CQ Communications, Inc., publishers of. *CQ-The Radio Amateur's Journal*, *Popular Communications*, *Communications Quarterly*, *Micro-Computer Journal*, *Electronic Servicing and Technology*, CQ Guides, Pop' Comm Guides, and CQ Books & Videos. The company may be reached by mail at 76 N. Broadway, Hicksville, NY 11801; by phone at 516-681-2922; by fax at 516-681-2926, and by email to any one of the following addresses:

"CQ@genie.geis.com",  
"CQMagazine@aol.com",  
"71301.424@compuserve.com" or  
"p00259@psilink.com".

- CQ news release



# THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

Ted Heilmann, N9LLT  
921 8th Avenue • Grafton, WI 53024

Joel Papke, N9BQM, Editor, 7968 Ubinger, Pittsville, WI 54466

## Using the Wisconsin Network Part 4

by Andy Nemec, KB9ALN

In Part 3 of our series, we explored how a node broadcasts it's "Routes", and why this is important to the node. We also talked a little about how this information can be gotten from the node, and how it can be useful to you. We will continue here, and go further into how you can more effectively use network nodes.

We have talked about how radio paths are not always 100% perfect, and how the route quality numbers can help you determine how good a path to a given node is. But how do you determine where you can go, and more importantly, how to get there?

Remember that the node keeps a "Route Table" of nodes that it can reach. Each is assigned a quality number. This number is recalculated every time a route is rebroadcast through a node. For example, let's say that we have Node called WAPR1 hearing a node with the alias of WAPR2. The path quality to WAPR2 is 160. Another node with an alias of WAPR3 hears the node WAPR1 with a route quality of 160. Node WAPR3 calculates the route to WAPR2 as being 140. This is because there is a little bit of route quality loss every time a route is passed through a node.

Earlier we mentioned that a route quality of 150 and higher will probably be a fair-quality route. Not excellent, but usable under most circumstances. If a route is lower than 150, it will not be reliable. So, most nodes are set to ignore routes with a quality lower than 150. Routes with a quality of higher than 150 are put on a "Nodes List".

You may have already seen a "Nodes List". You can easily see this by giving a node the "Nodes" or "N" command. This will tell you every other node that can be reached by the node that you are connected to. It lists both the Alias and the Call-Sign of these nodes.

This Nodes List is updated automatically every hour. New routes are added when the nodes hears other nodes broadcasts, and old ones that are no longer heard are gradually deleted from the nodes list. Notice the word "Gradually". This does not happen right away, and an "Obsolete" route may remain on the nodes list for a few hours. This is a source of frustration for packeteers, a node may be on the list, but they can't connect to it. The node thinks

this obsolete listing is there, but it may have faded out due to band conditions.

How do we get deal with marginal or obsolete routes? First, use the "N" (Nodes) command sparingly. Sometimes, a rather sizable list of nodes will appear when you invoke this command. This will not only give you a few "Obsolete" node listings, but it tends to congest the frequency you are on, not to mention other frequencies that a distant node or nodes may be on. When connected to a distant node, the R (routes) command may be a much better indicator of nodes that you can actually connect to.

It is also helpful to know where a particular node is, and where it goes. Another node command, the I (info) command, will be most helpful. This will usually return one or two sentences telling you where the node is, perhaps who sponsors it, and sometimes what function it provides. This can help you pick your path by eliminating useless connections, ones that you do not need to make to get from point A to point B.

Another thing that will help you navigate the network is careful observation. Keep an eye on your local Nodes List. Keep track of what nodes reliably appear on the list, and when they appear. Nodes that appear only in the early morning hours are probably not reachable at about 2 P.M. It is wise not to try connecting to them in the late morning hours, even if they are still on the nodes list. Remember, it takes a few hours for a route to become obsolete and disappear from the nodes list.

Perhaps the most helpful suggestion that can be made about navigating the network with success is to use it carefully. If you like to log onto distant BBS's to check them out, use the features of the BBS to keep the connection quick, and more reliable. This is done by keeping your packets short. This will also be appreciated by your fellow packeteers. Large packets may disrupt the connections of others using the network.

This is an ideal time to talk about using distant BBS's with care. A large majority of BBS's in Wisconsin are similar. Note that they are networked together, and messages from one are forwarded to another, if they are for ALLUSA, RTWIS, or DIST9 distribution. So it makes no sense to list all of the messages with the L command, because you will probably see the same messages on your local BBS. A much better option would be to use the L@ command.

Let's say you are on a BBS with the call-sign of KB9ALN. Send the command L@KB9ALN and you will get messages that originate from that BBS only, instead of the same messages that can be read at your local BBS.

## Other "DX-BBS" hints:

1) Send the BBS the "XS" command. This sends one line at a time, and makes for shorter, more reliable packets.

2) Use the "X" command if you are very familiar with the style of BBS that you are on. This will give you a shorter command line.

3) Use a variation of the X command to limit the number of lines that the BBS will send before pausing to ask you if you want more. X10 will tell the BBS to send 10 lines before asking you if you want more. NEVER tell a distant BBS to send a listing Continuously. This will probably kill your connection, and it may disrupt other traffic on the network.

Keep this information in mind when you use the network. We will show practical examples of how to use this information in our next installment of "Using the Wisconsin Network". Until then, 73. Andy

## New node in central Wisconsin

The Wittenberg Node, K9AEG-5 (WIWITT), is now operational on a LAN frequency of 145.71 with a 440 Mhz 9600 baud backbone to kb9byq-5 (WIAPL).

Many thanks goes to Steve KE9LZ, Al, KB9BYQ, Kirt N9WVD, Jeff KF9TS, and my good friend Dan, N9K. Without their dedicated knowledge and efforts, this node site would not have been a reality.

This high speed 9600 baud node will extent the network north towards Wausau and Antigo. Hopefully these area's will take the initiative to further extend the network north.

Signal reports would be welcome via k9aeg-5 to my PBBS k9aeg.

Thanks for reading this, and hope this node site serves the area well. Please send any questions or comments to K9aeg@ka9jac.wi.usa.na

73's, Denny

## THE TEST POINT (continued from page 3)

### LOVES PARK, IL

Third Saturday of every month. Northern Illinois Volunteer Examiners (W5YI VEC). Held at North Suburban District Library, 6340 North Second St. (Hwy. 251), Loves Park, IL. Contact: Dennis G. Eksten, W9SS, (815) 877-6768.

### MINNESOTA TEST INFORMATION

From The Ground Wave, Saint Paul Radio Club.

Saint Paul Radio Club (SPRC)  
Contact: Jay Bellows, K0QBE (612) 222-7253  
Test Site: St. Luke School  
1065 Summit Ave.  
St Paul, MN  
(Parking & entrance in back)

TESTING: First Saturday of the month, 8:30 a.m.

Anoka Amateur Radio Club (AARC)  
Contact: Tom Cunningham, N1OH (612) 537-2649  
Test Site: Blaine City Hall, Blaine MN  
TESTING: Second Saturday of the month, 9:00 a.m.

Bloomington Amateur Radio Club (BARC)  
Contact: Jerry Jensen, W2OW (612) 888-6187  
Test Site: Creekside Community Center

98th & Penn Avenue S  
Bloomington, MN

TESTING: Second Saturday of the month, 9:00 a.m.

Valley Amateur Radio Club (VARC)  
Contact: Paul Ramey, W0G0 (612) 432-1640 or  
Bill Martin, KA0CIR (612) 532-0438  
Test Site: Hayes Community Center  
14601 Hayes Road  
Apple Valley, MN

TESTING: Second Thursday of the month 6:30 p.m.

W5YI  
Contact: Dave Ranney, N0AXL (612) 936-9850  
Test Site: Eden Prairie Library  
479 Eden Prairie Drive  
Eden Prairie, MN  
TESTING: Third Tuesday of the month 6:30 p.m.

SE Metro Area Radio Club (SEMARC)  
8641 80th ST., S  
Cottage Grove, MN  
TESTING: Third Saturday of the month, 9:00 a.m.

The above information has been furnished by the various VEs. However, it is suggested that you confirm time and date BEFORE you make the trip to the test site. Occasionally, test may be canceled or dates and locations changed. A Phone call could save you some grief and a wasted trip.



# SSB

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FOR SALE: HG-54HD 54 ft crank-up, TH5-MK2s 3 element tri-band beam, HAM-IV rotor. Package price \$2350.00. Hg-54HD \$1800.00, TH5MK25 \$425.00, HAM-IV 275.00. Also 1 Rohn #25 top section \$30.00. 1 Rohn #25 regular section. Jim Burcam, K9LBX, 513 Flint, Onalaska, WI. (608) 783-1611.

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FOR SALE: Colorful United States Stamps. 100 all different. \$1.00 postpaid. Richard Regent, K9GDF,

A railroad worker named Morris Barieult was arrested in April 1951, for assaulting three of his coworkers with an iron poker while they slept. When the police asked him why he had done it, Barieult explained he thought the three were plotting against him by snoring in Morse Code.



## QCWA CHAPTER 162

Congratulations to Spencer Clope, W9LDH on completing his upgrade to Extra Class. At 85 years young, Spence is living the adage - one is never too old to learn and improve oneself. I am truly motivated and will try to equal his feat by the time I write next June's article. I hope I didn't "just insert my foot on my wide open mouth" oh well, time will tell!!

Our Lutheran High School Walk communication outing on the 6th of last month was a big success. Three Chapter members: Spence Clope, W9LDH, Fern Fisher, W9LCJ, and Larry McCalvy, WA9JMO worked with Bill, NW9P, Rick N9UBO, Bob, N9ZWO, Dick, KB9RP and Charles, N9VNJ to make a worthwhile school project run a little smoother. Thanks fellow Hams!

Our three-days of radio demonstrations with 175 fifth grade students has been canceled by the school's campout committee. The camp site for this year was moved to another location, its amenities, in the opinion of the committee, precluded Ham Radio demonstrations for this outing.

Our Chapter sponsored Ham classes have concluded with six of the eleven students passing the novice written portion of the 6th of May. They and the other five classmates will take their respective remaining element examinations on the 3rd of June. The best of luck to all of you. The Ham Class staff included Chapter members: Bill Komistra, W9OVZ, Chuck Knotek, W9GKM, Larry McCalvy, WA9JMO, Spence Clope, W9LDH and Bob Jensen, W0WLN. Chuck taught the code portion of the class with assistance from Dan KA9OIL. Spence taught both code and theory. Bob set up the class agenda and rounded up instructors as well as teaching. We would also like to thank Cheryl, WS9P, Alex, N9RGX and Pete, N9ITS for their teaching expertise.

Ed, WA9Y and Cecilia Westberg have returned for  
(continued in next column)

## Yellow Thunder Amateur Radio Club

WB9FDZ (Original Club Call) • K9ODK (Robert L. Prine Memorial Call)



Raymond J. Matlosz, N9MLZ, Secretary

450 West 2nd Street • Reedsburg, WI 53959



The MAY 17, 1995 meeting of the Yellow Thunder Amateur Radio Club, Inc., was called to order at 8:40 p.m. by club vice president, Bill Klinkner, N9KXX. A fox hunt preceded this evening's meeting.

The minutes of the last meeting, as published in the BSSS, were accepted with the following corrections: Meeting date for May was Wednesday May 17, not 18 as published and the Saturday classes were not every Saturday, but some Saturdays. Jim Decker, WB9UQT gave the financial report.

OLD BUSINESS: Last class will be May 27th with the exam scheduled for June 3rd at the Baraboo Public Library between 10 am and 1 pm. A motion was made and passed for the club to pay for the rental cost of the room at the Baraboo Civic Center with a nominal fee charged the students. The motion was made because in years past, there were enough students in the class to keep the cost of the classes reasonable, but with three students to share the cost this year, the cost per student would have been higher than usual. Members were given an update on the May 6th Balloon flight from Hillsboro which landed in Lake Michigan and washed up on the beach sometime later.

NEW BUSINESS: Preceding this evening's meeting was a fox hunt that was planned on by members Jim Paul, N9LKY and Bill Hommel, KA9QFJ. There were three foxes, two of which sounded like Jim Paul as he rigged a crossband repeater from his car at the Baraboo Civic Center and a second fox that had a voice storage chip and timer. Bill Hommel was the third fox. Once each fox was located, the team then recorded the key word for that fox. Four teams went a

debut in the world of television commercials would soon be showing on the airwaves in this area. He was one of the actors in a "His Jeans" commercial that resulted in his casting in the movie "I Love Trouble". Steve Schulze indicated he had not been contacted by the organizers for he scout-a-rama to be held Saturday May 20th in Baraboo. Plans were made to participate in the event. Field Day will be the weekend of June 24-25 in Owen Park. Club secretary was asked to submit a letter to the Columbia County sheriff's department notifying them of the club's participation in an emergency training exercise. Gus Felt, a student in the ham class, submitted his application to become a member of the club and was voted in. Jim Decker informed the club of a silent key, Roger Prah, WA9PDX. Buck night winner was club president Bob Sauvan WT9Q who was not present to win. Meeting adjourned at 9:27 p.m.

The next meeting will be held Thursday June 15, 1995 at 7:30 p.m. in room 14 at the Baraboo Civic Center.

Sincerely,  
Raymond J. Matlosz, N9MLZ, Secretary

The following members and guest were present:

Steve Schulze	N9UDO	Baraboo
Jim Romelfanger	K9ZZ	Baraboo
Jim Paul	N9LKY	Merrimac
Art Kleefisch	W9WSS	Baraboo
Jim Decker	WB9UQT	Baraboo
Allan Johnson	AA7CS	Reedsburg
Thomas Harrison	N9PQJ	Reedsburg
Bill Klinkner	N9KXX	Sauk City
Anne Klinkner	N9PQL	Sauk City
Raymond Matlosz	N9MLZ	Reedsburg
Bill Hommel	KA9QFJ	Baraboo
Bob Baker		LaValle
David Spearing	KB9CSW	Portage
Ken Ebner	K9EN	Portage
Leonard Wagner	N9XJG	Baraboo

## ARES/RACES Packet Node Emergency Network Taking Shape

The following ARxxxx ARES/RACES emergency traffic packet network nodes on 145.61 are operational as of May 11th, 1995:

Node	City	Sponsor	Freq.
ARBOO:N9ROY-11	(Baraboo)	Wis. Interstate Net.	145.610
ARGLK:KB9WC-11	(Green Lake)	Green Fox ARC & MKE A.R.E.C., Inc.	145.610
WITOMA:N9SNJ-7	(Tomah)	Wis. Interstate Net.	145.610
ARSUL:N9IDH-11	(Sullivan WK)	MKE A.R.E.C. Inc.	145.610
ARSUNP:WB9PCI-11	(Sun Prairie)	S.P.A.R.K.S A.R.C.	145.610
WIMKE:WB9SMM-4	(Milwaukee)	MKE A.R.E.C. Inc.	145.610
AROEKE:WB9RQR-11	(Ozaukee)	Ozaukee Co. ARES	145.610
WIWSH:WB9SMM-9	(Waukesha)	MKE A.R.E.C. Inc.	145.610
ARBURL:N9QIP-11	(Burlington)	Wis. Interstate Net.	145.610
ARFOND:N9QIP-10	(Fond du Lac)	Wis. Interstate Net.	145.610
WINSW:N9QIP-8	(Hollandale)	Wis Interstate Net.	145.050

This network is linked to other network nodes in Southern Wisconsin and does NOT offer forwarding links for BBS traffic or keyboard to keyboard exchanges. Its primary function is to serve EMERGENCIES, not chitchat. Any Amateur Radio operator with EMERGENCY TRAFFIC can use the system and can be used by ARES/RACES organizations for event planning or Emergency Drills.

Each Node, stand alone, has the (T) Conference feature to allow several Amateurs to connect to the Node at one time and carry on a group discussion, net, or event. It is asked only that users of the system keep in mind that even though it is possible to connect to your favorite BBS, it is not what the system was intended for .. Read your personal mail and leave the system for EMERGENCIES.

Another use for the system is to provide an additional communications link to the National Weather Service at Sullivan, WI. The Weather Service can use packet to talk to surrounding SKYWARN NETS and either disseminate or gather information from liaison operators. The liaison operator merely connects to ARSUL from his Closest Node and then types the letter "T". Everything from that point on will be printed at the National Weather Service office operations desk.

During a weather event, your local SKYWARN coordinator will have appointed someone to act as liaison to the Weather Service to pass on important details about the event through the use of packet radio.

We, as amateurs, must try to stay on the cutting edge of technology and keep a very close eye on our amateur practices to preserve the validity of our assistance and existence.

If you are a liaison for a SKYWARN net in your area, connect to the system during non-event times to become familiar with the system.

Donations are also needed for 2M radios for 145.61 MHz, antennas, feedlines, or cash. Your club can also sponsor the node in your area to tie your area into the eventual statewide network. Best success for equipment has been MFJ-1270/B/C TNC, ALINCO DR1200, Radio, Hustler G-6/144 Antenna, and Belden RG-213/U or 9913 Cable.

The TNC uses X1J firmware and is available at no charge or, if you want to burn your own images, the ROM file can be obtained on disk.

For more information or donations, write to: Wisconsin Interstate Net, P.O. Box 284, Arlington, Wisconsin 53911.

- Courtesy Tom Weeden/WJ9H

(QCWA Chapter 162 continued)

a short Wisconsin visit. Ed dropped in on one of the ham classes and joined us for our May business meeting. And both will be able to join us during our now world famous annual Mosquito Awareness Outing on 11 June 1995. Ken, N9NBC and Marbeth Knoff will again host this third annual stinging affair. Ken announced at the May meeting that he had planted a full bumper crop of mosquitoes for the upcoming event. Everyone attending is asked to bring a dish to pass. Buns, chips and soda will be provided. Further details can be gleaned from our 9 pm Thursday net. See you there on Sunday, 11 June 1995 from 1 pm until when ever at 16616 - 12th Avenue, Kenosha, WI. Take I-94 to Hwy "E" in Kenosha County, turn west for about three miles and hang a right into their drive.

Our first of what I am hoping will be come an annual event meeting of Wisconsin three current QCWA Chapters, will take place in Oshkosh on Saturday, 26 August 1995 beginning at noon. Bob Jensen, W0WLN will be coordinating events for Chapter 162 with Les Petersen, W9YCV Chapter 55, who I believe is the outing's chairman. Details will be given to or mailed to all members.

73, Larry McCalvy, WA9JMO

WANTED: I need to find an ELMER. I need help upgrading from no-code Technician. I can drive anywhere in the Columbia or Sauk county area. Joseph Rowland, N9PRF. PO Box 525, Portage, WI 53901.

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# The Badger State Smoke Signals Shopper's Guide

## SWAPFESTS



### 24th ANNUAL MIDWINTER SWAPFEST

WAUKESHA EXPOSITION CENTER  
WAUKESHA, WISCONSIN

**SUNDAY  
JANUARY 14, 1996**

1994 WINNERS  
Karen M. Schneider, N9SVA, Appleton  
Robert J. Goemans, N9HAD, Madison  
Amy Thachac, N9TLN, Wisconsin Rapids

Both Sponsored By  
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### HAM IT UP EVERY SPRING! MADISON SWAPFEST

**SUNDAY, APRIL 14, 1996**

Dane County Expo Center  
Forum Building

Sponsored by MARA/WB9AER

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Madison, WI 53708-8890

SOUTH MILWAUKEE AMATEUR RADIO CLUB

### SWAPFEST 95

**July 8, 1995**

(Held every July)

American Legion Park

Shepard Avenue • Oak Creek, WI

(414) 762-3235

Extension 58

P. O. Box 102

South Milwaukee, WI 53172

### Fox Cities Hamfest

**November 5, 1995**

Starlite Club, Hwy. 55 north of Kaukauna

HAMFEST INFO:

Dan Vanevenhoven, N9LVS  
2410 E. Newberry Ct.  
Appleton, WI 54915  
414-739-5101

EXAM INFO:

Larry Siebers, KD9IA  
414-788-3823

### Lakeshore Hamfest & Computer Swapfest

Manitowoc County Expo

Intersection of Hwys 42-151 and I-43 on Cty Highway R

For more information, call:

Glenn, AA9MT: 414-684-7096  
Red, N9GHE: 414-684-9097 (Nights)

ManCoRad Radio Club • P.O. Box 204 • Manitowoc, WI 54221-0204

### HAMFEST COMPUTER EXPO ANTIQUA RADIO SHOW SATURDAY, AUGUST 26, 1995

OMNI CENTER • ONALASKA, WI

2.5 MILES NORTH OF LA CROSSE ON HWY. 35

RIVERLAND AMATEUR RADIO CLUB  
WESTERN WISCONSIN ANTIQUA RADIO COLLECTORS CLUB

CALL DICK LOW, K0JYB, 1-608-784-9176

1520 NAKOMIS AVENUE, LA CROSSE WI 54603

### 18th Annual CWRA Swapfest

**Sunday, June 11, 1995**

8 a.m. to 2 p.m.

UNIVERSITY CENTER, U.W. STEVENS POINT

Info: Art Wysocki, N9BCA  
3356 April Lane

(715) 344-2984  
Stevens Point, WI 54481

### EAU CLAIRE Amateur Radio Club SWAPFEST July 22, 1995

Chippewa Falls Fairgrounds

Carol Ceraso

(715) 723-9205

Liz Searing

(715) 834-1303

P.O. Box 1867 • Eau Claire, WI 54701

### RACINE HAMFEST 95

**July 30, 1995**

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### Ozaukee Radio Club 17TH ANNUAL RADIO AND COMPUTER SWAPFEST

8 a.m. to 1 p.m. • Circle B Recreation Center  
Intersection of Highway 60 and County I  
Exams by Badger Examiners, c/o Gary Sharbuno,  
5119 W. Willow Rd., Brown Deer, WI 53223  
Swapfest sponsored by Ozaukee Radio Club  
11448 N. Laguna Drive • Mequon, WI 53092

### Kettle Moraine Radio Amateurs SWAPFEST

**Sunday, October 15, 1995**

Waukesha County Expo Center

Info: KMRA Swapfest S46 W32264 Highview Rd.  
Waukesha, WI 53188-9276

Red Cedar Repeater Association, Inc.

### AUCTION

**February 27, 1996 • 7:00 p.m.**

American Legion Post 53 • 634 Water Street  
Eau Claire, WI

CONTACT:

Steve Hart, KA9OMC  
E616 810th Ave.

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Knapp, WI 54749

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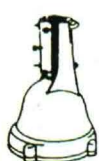
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